

## APPENDIX B: AMINO ACID SEQUENCES

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> RXA00009 (1-900, translated) 300 residues
MAFGYVLREA VRGMGRNVTM TIALIITTSI SLALLATGFL VTNMTDRTKD IYLD RVEVMI
QLDEDT SAND PECTAESCTE VRDVLEGLDG IDSITYRSRE ASYERFVEVF KDTDPVLVAE
TSPDALPAAF HVRLEDPLAV EILDPVRDLP QVSNVIDQVD DLRGATENLD SIRNATFLIA
AVQVLASIFL IANMVQIAAF NRREETEIMR IVGASRFYTQ GPFVFEAILS TLIGAVFAVG
ALFLGKELVI DKALRGLYDS QLIAPVTTTD IWLVAPIISG IGVVIAGIIA QLTLRFYVRK

> RXA00010 (1-687, translated) 229 residues
VITFENVTKN YKTSTRPALD NVSLHIEKGE FVFLIGPSGS GKSTFLRLMT REENVSSGSL
TLADFQVNKL RGTQVNKL RQ RIGYVFQDFR LLKNKNVYDN VAFAL E VIGK KKDKIQELVP
ETLEMVGLAG KANRMPNELS GGEQQRVAIA RAFVNRPLVL LADEPTGNLD PDTSD EIMIL
LNRINRLGTT VVMSTHNART VDDMRRRVIE LQLGKLVRDD AHGVY GEMR

> RXA00024 (1-945, translated) 315 residues
MEHGVTVIKG TEFDVFPLNL GGNTFGWTSN REQTF AVLDA FVAAGGNFVD TADSYSAWVE
GNEGGESERE LGAWIKERGA DKLI IATKSG ALEPVAGRSR EATFKAVEGS LERLGVESID
IFYHYHDEA VSIDEQVAIA NDLIAQ GKIK HLALS NYSAE RLAEFF E KSV GTPAQPV ALQ
PHYNLVS RKA YEENVQPLAE KHGVAVFPYF ALAAGLLTGK YTSKEDISGK ARAGQLDRYA
SDEAFVAVTE LRAVADELGV APTTVALAWL VAHGVTAPIA SVSKVEQLKD LMAVKDVELS
AEQLARLDKV SEPFA

> RXA00026 (1-1386, translated) 462 residues
MSTDNFSPQV PSTVYLDYME QGIAARKAEA ESNASTKGES PDYPGQQVIW RLIQEAGESL
RDELRTLAFT LHDHPEEAFE EVFATEEITK LLQNHGFVQ SGVYGVKTAL ETSFETPGYD
PAQHPSIAIL AEYDALPEIG HACGHNI IAA AGVGAFLAVT NMIKTA EVKG VDHLDFEGRI
VLLGTPAE EG HSGKEYMIRN GAFDGIDASI MMHPFGFDLA EHVWVGRR TM TATFHGVS AH
ASSQPFMGKN ALDAASLAYQ GFGVLRQQMP PSDRLHAIIT EGGNRPSIIP DTATMSLYVR
SLLPEALKDI SKRVDDVLDG AALMAGVGVE KQWDVHPASL PVRNNHVLAR RWAKTQNLRG
RTALSEGILP DTLAASTDFG NVSHLVPGIH PMVKISPENV ALHTKEFAAY ARTEEAIDAA
VDAAIGLAQV AVDALADPQM LIDATLEFTN SGDVLKVG DY LA

> RXA00048 (1-1659, translated) 553 residues
MNH DSECDLD NVVQFTIQEG LDPMS PNNFD TDVCIVGGGP TGTL LAVLLG QKGHRVTILE
KWPTFYERPR AVTFDHEIAR ILGYIGIDSE NDEAIDYHSD SYDWKNAAGE TLLEV DWTS M
TDSGWRTRYW FYQPELEKRL RDLAL TMDFV DIRCGFTAVG LSQDENS AII HGI VTDTPEN
IPADAQREDI RAKYVIGADG ANSFVRNSLG LEMNDLGYFF DWLILD LKPT QDIDYGT DHW
QLCDPKRPTT IVPGGPGRRR WEFMALPGED LKELASEESA WNLLEPWDVT PGKAILERSA
VYRFQARWAQ EWRSGRALIA GDA AHLMP PF AGE GMCAGLR DSLALAWRLD LVLSGKSDDA
LLDTYGEERR EHVHYIDFS MDLGNVICIT DEDEARLRDE RMIKELEAQD GVPVNTDVAH
LGPGIWDKDS SHGGELAKQG IVEYQGRKAR FDDAVGRGWA VLGLNTDPRE VLDEDSLVAL
DAIGAIVESV GDATSAVL DV EGLYTRWLKE AGATFIITRP DFYVYSTAVD AEQLQTQIKQ
LSDLLHLNSV VGA

> RXA00070 (1-432, translated) 144 residues
VGINRISQGS APKLGVRSTR QRKAVIDVLE EIDNFASAKE IHHELSTREH NVGLTTVYRT
LQSLADIGAV DVLTVTGGET LYRQCHDEGH HHHLVCTNCG RTVEIDGGPV ETWAQE IATK
NGFALSSHEA EIFGLCADCK EKV T

> RXA00072 (1-441, translated) 147 residues
MSFQLVNALK NTGSVKDPEI SPEGPRTTTT LSPEVAKHNE ELVEKHAAAL YDASAQEILE
WTAEHAPGAI AVTLSMENTV LAELAA RHP EADFLFLDTG YHFKETLEVA RQVD ERY SQK
LVTALPILKR TEQDSIYGLN LYRSNPA

> RXA00078 (1-414, translated) 138 residues
MKADLTPYRQ FNGNAKEAME FYQTVFGGEL QMMPFSAMHS EEEVGGDGEK IMHAELVVDG
QKLLFASDIP RVMQRMKGED TPLSLTGGA E LEE EIRGYWE KLSEGGTVTM PLEAVPWGAV
YGALED RFGT HWMFNIGG

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> RXA00088 (1-1014, translated) 338 residues  
 MVKNRFLVLS IATVAALALV GCSSTDSTSS ESSSAAESTA AASTLTIEDN HGTEGISLP  
 EGVAATDNRA FELLDRWGV LVAAPLQLVP FTVTGYTEEG GVANLGSHRE PDLEALAAAQ  
 PSLIINGQRF AQYYDDIAL NPDA TVVELD PRDGEPLDQE LIRQAETLGE IFGEEEDAAK  
 IVADFESALE RAKTAYAAIS DQTVMAVNV GGNIGYIAPS VGRTYGPIFD LVGLTPALEV  
 GNASSDHEGD DINVEAIAAA NPD LILVMDR DGGTSTRNEA DYVP AEQIVS DNEALANVKA  
 VTDGYVYYAP ADTYTNENII TYTEILNGMA DMFEKAAQ

> RXA00100 (1-600, translated) 200 residues  
 MILDWVISIM EALGAVGVGV AVFLENVFP IPSEVVLPLA GFTTTQGDIN VWAALMWSVI  
 GSVSGAFLLY GLGRSIGAAR LRQVADWWL VDATDVVKSL SWFEKYGKYS VFFGRLVPGV  
 RSLISIPAGV DKMNPVLFV LTAVGSTIWN AVLIWTVWL GAEWETVSMW FESYSTIIYV  
 GIALIXAYVL FGLVRRRIKT

> RXA00111 (1-993, translated) 331 residues  
 MAFFSFSTSP LTRLIPGSRS KATGAKRRLS STIASIERSP GIIALDGPFT HDHVSVRGIR  
 LHLAEAGSPT KPLVLLIHGA FGGWYDYREV IGPLADAGFH VAAIDLRGYG MSDKPPTGYD  
 LRHAAGELSS VIAALGHDDA LLVGSDTGAS IAWAIASMP ERVRGLISLG AIHPLDMRRA  
 IRRKPHLHVS DLSRLAPFRL PSFLHNLFFH GITSEARREI VNNTSSSYQR SNAFTETVLL  
 RKKALSIDHT ITPIIRTNRY LVGSIPSKTV SAPVWLLRTN TRRWEHLANT ARTRTTGPFT  
 TIAIPGGYEL PYLENPSEFA ATIAEFARTT F

> RXA00112 (1-1191, translated) 397 residues  
 LSPSLVDDAV IVLVMAFALW GGWRQGAFTS LLSTVGVVSG LVVGAAAAPF VMGLTDSTAL  
 RFLLAIGTVV LLVGLGNLIG AHLGAAIRDN IKFRSSRTLD SGLGAIFQVL ATLIVVWLVA  
 IPLATGLPGT VASGIRDSRI LGFVDKYTPQ GLDTLP SKIA AMLSESGLPP LISPTGGSS  
 VEVDAP EINV TNVDLVEAMR PSVIHVMGDA QECSSRLMGS GFVASPDYV TNAHV VAGTS  
 TVSLDTMIGT RSAEVV FYPD NLDIAVLYSP DLGLDPLPWA STPLDTGDEA IVMGFPQSGP  
 FNASPARVRE RIMITGSNIY ANGQHEREAY SVRGSIQSGN SGGPMTNEMG EVGVVFGAA  
 IDGSDTGYVL TAEVQERIG DITALTQPV D TMQCAVS

> RXA00133 (1-813, translated) 271 residues  
 MLFVRRLTSL KTATGIPVTM FATVLQDNRL QITQWVGLRT PALQNLVIEP GVGVGGRVVA  
 TRRPVGVSDY TRANVISHEK DSAIQDEGLH SIVAVPVIVH REIRGVLYVG VHSAVRLGDT  
 VIEEVTMTAR TLEQNLAINS ALRRNGVPDG RGSLKANRVM NGAWEQVRS THSKLRMLAN  
 RVTDEDLRRD LEELCDQMTV PVRIKQTTKL SARELDVLAC VALGHTNVEA AEEMGIGAET  
 VKSYLRVSMR KLGAHTRYEA VNAARRIGAL P

> RXA00135 (1-1254, translated) 418 residues  
 VKDKFLVTGG AQLQGA VKY GAKNSVLKLM AAALLAEGTT TLTNCPEILD VPLMRDVLVG  
 LGCDVTIDGS TVTITTPAEL SSNADFAVT QFRASVCVLG PLTARCGRAV VSLPGGDAIG  
 SRPLDMHQSG LEKLGATTRI SHGAVVAEAE KLVGANITLD FPSVGATENI LTASVMAEGR  
 TVLDNAAREP EIVDLCRMLR SMGANIEGEG SPPITIEGVE KLTPTQHEVI GDRIVAGTWA  
 YAAAMTRGDI TVGGIAPRYL HLPLEKLKIA GAKVETYENG FRVQMDKQPE ATDYQTLPPF  
 GFPTDLQPMA IGINAVSNGT SVITENVFES RFRFVDEMLR LGADANVDGH HVVIRGIEQL  
 SSTSVWSSDI RAGAGLVLA L CADGVTEVH DVFHIDRGYP NFVENLQKLG ATIERVSS

> RXA00137 (1-1089, translated) 363 residues  
 MALADTRFAT RRRALAAKLA AQRIDSILVT SPIHVRYLSG FTGSNGALIV NKDLSAQICT  
 DGRYTTQIAE EVPDIEALIE RASATTLLAQ VEGPRRIAIE AAQTTLQDL SLREATQEDV  
 ELIPVSGVVE SIRLTKDSFE LDRLRDVAAL ASQAFEDLLA AGELAEGRSE RQVAADLEYR  
 MRLGAERPS FDTIVASGPN SAKPHHGAGD RILQRGDLVT IDFGAHARGF NSDMTRTLVM  
 GEAGEFEAEI YDIVLRSQLA GVEAAYSGAN LFDIDAACRK IEDAGYGEY FVHSTGHGIG  
 LEVHEAPSAS KTSQGVLETG STLTIEPGIY VPGKGGVRIE DTLIITSGAP EIITKVS KDL  
 IVV

> RXA00139 (1-711, translated) 237 residues  
 LIEQEQRQEQN VSERRQDYKR HGSRYKARM AVDILFEAES RDVDPVAIID DRHKLARDTN  
 PIVAPVAEYT ETIINGVAVE LDTLDVFLAE HIAETWTLGR LPSVDRAILR VASWEMIYNA  
 DVPVTTAIVE AVEIASEYSG DKSSAYINAT LDAMASKVET LRERANPEA VLAEASESLD

DAPVAPWDDSDALDDSDDEF EAVDAAEVFE AEETVEVSEV AEDSEVSKVS EEKADES

> RXA00143 (1-1482, translated) 494 residues

MVWDWHTRKG AVARLTPPFI PLNPITQAER LADGTTIFSL PAGLKWVARH DLSGFLNGSR  
FTDVCLTAPV KALANWRHVH NFVDQDGGTL ITDSVSTRLP ASTLTGMFAY RQTQLIEDLK  
FLSRTSTLFD GSPLTVAITG SRGLVGRALT AQLQTGGHEV IQLVRKEPKP GQRFWDPLNP  
ASDLLDGADV LVHLAGEPIF GRFNDSHKEA IRESRVLPTK FLAELVAEST QCTTMISASA  
VGIFYGHDRGD EILTEEESG DDFLAEVCRD WEHATAPASD AGKRVAFIRT GVALSGRGGM  
LPLLKTLFST GLGGKFGDGT SWFSWIAIDD LTDIYYRAIV DAQISGPINA VAPNPFVSND  
MTKILATSMH RPAFIQIPSL GPKILLGSQG AEELALASQR TAPAALENLS HTFRYTDIGA  
AIAHELGYEQ LADFAQQQEI EAERKQERAE LKAAKKIAKK APVLEESPTN LEDPEEVEQS  
ILSSILNFRK KRND

> RXA00152 (1-1296, translated) 432 residues

MTGLILAIIV LVEFVAVVIK SIALIPQGEA AVIERLGSYT RTVSGGLTLL VPFVDRVRAR  
IDTRERVVSE PPQAVITQDN LTVAIDIVVT FQINEPERAI YGVDNYIVGV EQISVATLRD  
VVGGMTLEET LTSRDVINRR LRGELEDAATT KWGLRISRVE LKAIDPPPSI QQSMEKQMK  
DREKRATILT AEGQREADIK TAEGEKQAKI LQAEGEKHAS ILNAEAERQA MILRAEGERA  
ARYLQAQGEA RAIQKVNAI KSAKLTPEVL AYQYLEKLPK IAEGNASKMW VIPSQFSDSL  
EGFAKQFGAK DAEGVFRYEP NTVDEETRDI ANADNVEDWF STESDPEIAA AVAAANAVAN  
KPVDPPEPGEI LSKKTARRVE PEAVLEALQN GTTTQPEVEA APPTANFAQE FPAPQANPED  
YSDQHRENPY GN

> RXA00177 (1-288, translated) 96 residues

LPYVLAFAFAP YAPQAEQRAA AAFGSATALE GLQQLRAQVG APQRLSDYGF TAAGIPEAVE  
IILEKVPANN PRTVTEENLT ALLTTALNGD DPATLN

> RXA00178 (1-885, translated) 295 residues

MTISAQQQAV EEDLVERVLA SFDSCENPRL KLVMSKSLTVH LHDFFIRDVRL TEEEWNYAID  
FLTKVGHITD DKRQEFVLLS DTLGASMQTI AVNNEAYEDA TEATVFGPFF VDDAPLVQNG  
DDIAFGAVGQ PAWVEGTVKD TEGNPIPNAR IEVWEDEEDG LYDVQYADER SAGRAHLYSD  
ENGEYHFHGL TPVPYPIPHD GPVGQMLQAV GRSPVRCAHL HFMVTAPEKR TLVTHIFVEG  
DPQLEIGDSV FGVKDSLICK FVEQPAGTAT PDGRDVGDTQ WARTREDFIVL APGNV

> RXA00191 (1-1419, translated) 473 residues

MSFKRRSLAI TCAITSSIVL AGISGTAAQ SSVVSGSSGL LSSSELHPET PAPLDAPKNI  
IYIMIGDGMGY NHVSATNLFE TGQTMHQVEG EPGSVTPVEG GTPVQAFEGA EWTQLAQSTF  
QDGNISYDPER AWADHNYVNE NFDTSAAAGT AMATGVKTTN GMIGINPANE PAKNTSEYAI  
EKGAAGVVS SVPFNHATPA AWAHNSNRN DLHAMAEEI NSDLNVIMGA GHPFFDNNNGN  
PITEADEDYM QASQYERLAS GETDFTFVEE DADFEALANG QVESDKYFGL AQVEDPLQHD  
RDGDSVTPYD VPLNDVVDLS TMSKAALNVL NQDEDGFHIM IEGGAIDWAG HANDMARDIE  
EVQEFNKAVE TVIEWVETNS SWDETLVIVT ADHETGYMTG PNDDPNWSAM TGAAGIVPNH  
GWHSGNHINQ LVPVFARGAG VSDIVAAADQ VDPPIRGNYID NIEIANLTFN KWW

> RXA00226 (1-825, translated) 275 residues

MNLSMPAFAT WVLILDFSRT LMAAHNLQK NALIFRADAL QPASRGADVI IADPARRAGG  
KRITNPAQLL PPLPSLLDAW INQPLAVKCA PGLDFSEWPG LVSIASVDGG VKEACLYTTD  
LADGETREAI VIKDGLIDRI TNFEDDATGQ DLAAAPGEFI IDPDGAIVRA GLVRHYAVRE  
QLWMLDERIA YLTGNRIPEG TSGFRFIEEV PLKKLKSAMA AHDAGAVEIL VRGVDVDPDQ  
LRKRLQLKGT KAMSVVITRI GSRGVALICG PRERA

> RXA00231 (1-789, translated) 263 residues

DRLRKVSFTG STPVGQQLK KAADKVLRTS MELGGNAPFI VFEDADLDA IEGAMGAKMR  
NIGEACTAAN RFLVHESVAD EFGRRFAARL EEQVLGNGLD EGVTVGPLEV EKARDSVASL  
VDAAVAEGAT VLTGGKAGTG AGYFYEPTVL TGVSTDAAIL NEEIFGPVAP IVTFQTEEEA  
LRLANSTEY G LASVFTQDT SRIFRVSDGL EFGVLGVNSG VISNAAAPFG GVKQSGMGRE  
GGLEGIEEY SVQYIGIRD YAG

> RXA00249 (1-954, translated) 318 residues

GVFTFQGVVL LVDARHGVVE QTRRHLSVSA LLGVRTVILA VNKIDLVDSY EEVFRNIEKE  
FVGLASALDV TDTHVVPISA LKGDNVAEPS THMDWYTGPT VLEILENVEV SHGRAHDLGF

RFPIQYVIRE HATDYRGYAG TINAGSVSVG DTVYLPEGRT TQVTHIDSAD GSLQTASVGE  
 AVVLRLAQEI DLIRGELIAG EDRPESVRSF NATVVGLADR TIKPGAARKV RYGTLEVRGR  
 VAAIERVLDI DGVNDNEAPE TYGLNDIAHV RIDVAGELEV EDYAARGAIG SFLLDQSSG  
 DTLAAGLVGH RLRNNWSI

> RXA00277 (1-1584, translated) 528 residues

MKDNEDFDPD SPATEAVAFN PFDDDDDEDS PATSAVAFNP FEDDDDDDEF QGEGLEFLLR  
 DLDNLRATQG QMVVEQPAVE DSLGSASAHT ETAAASLRPR PEVDPSESR RQAISLFRR  
 RRVRRQSRPV ADGMVELPFI TPKPEDELLI DPEKKRKPGV AAPQLVAGDI VAEQYEV LGV  
 IAHGGMGIY LANDRNVSGR IVVLKGMAQ SSVQDQGTAE AEREFLADIT HPGIVKAYNF  
 IDDPVPVGGF IVMEYVNGPS LKDRCKAQPD GVLVRLAIG YILELLPAMD YLHQRGVVYN  
 DLKPENVIAT EDQVKLIDLG AVTGIGAFGY IYGTGKFQAP EVATHGPSIS SDIFTIGRTL  
 AALTMPLPVE DGVLPAGIPS PKNSPLLRRH LSFYRLQRA TADDPQHRFR NVSELRTQLY  
 GVLREILAVR DGKQYPPQHS LFSPQRSTFG TKHLVFRTRD IIDGIERQAR ITAPEIVSAL  
 PVPLIDRTDP GARMLSGSSY AEPSETLETL RNSMEDEQYR QSIEIPLG

> RXA00299 (1-744, translated) 248 residues

MLPNHSPYVI AEQFGTLAEL YPDRIDLGMG RAPGTMNTL RALRRDPQSA ENFPSDVVEL  
 NSYLTGRSRL PGVNAIPGKG TNVPLYILGS SLFGAQLAAQ LGMPYSFASH FAPTHLEHAV  
 QTYRDNYQPS EQHPEPYVIA AVNVTASDST EQAHDDFYKV ARARVKNMAL RGRQVTDEQL  
 DELMDSPAAR QIVDMLHYTA IGTGSEVKEY LDGFVKTAQA DELMISLQSP NTEATTRNME  
 ILADAWIN

> RXA00332 (1-702, translated) 234 residues

MAFNKAYDAL RAPQITLGLM TPNGPELGRS EMVPTENSIE LAIQAEAQGF RGMWVRDVPL  
 AVPQGITVTD KQATYLDLDPF LMLGAMASVT STIALGTAAT VLPLRHPLHV AKSALTDLRL  
 SHGRFVLGIG SGRDPEEFEEI FGKSLDNRRR DIQSGWAILR AALSPDPAMR ADLEFAPTP  
 PEAQIPMIAV GSARQTVQWI ARNADGWATY YRPAAEQVGR LDLWDKARGG TRPC

> RXA00354 (1-636, translated) 212 residues

GLIGANGGYV ESAQESVFHR RLSGEETRHI VEWLYNRGLE FYLESNNGLY ASRGFREASK  
 PVLRLSEKT DVTVDSPYDP MFWGASLDRD DVNKISYIFN SQEDLDAARE AFPNLEHTTW  
 GGQTGALFGT IGVSVNKKIG VDRLLKYLNA DRANTIAFGD SDEDLSLFEA SAYGVAMGEA  
 TESLKAADL VTDVAGQDGL RNAFLKLELI DA

> RXA00372 (1-1077, translated) 359 residues

MSSKHLKRT AVTVFALGAS AALLVACSEP SEDVSTAETT TASSSANASD AAGEKVTITV  
 YTSEPEEKVD EINKAFMEAN PDIEVEVYRA GTGDLTARIE AEKASGSIEA DVLWAADAAT  
 FETYAAQGD L AELEDVETSD IIEEALDAEN FYVGTRIPT VIAYNTEVVD QALPTSWAD  
 LTDPKYAGQL VMPDPAVSGA AAFNASVWKN DPALGEAWIT ALGENQPMIA QSNQPTSQEI  
 AGGGHPVGIV VDYLVRLDAA AGSPIDTIYA SEGSPYITEP AGVFADSEKK EAAERYINFL  
 LSVEGQEIIV EQAYLPVRED VGTPEGTPEL ADIELMTPDL EVVTADKAAA VEFFQNAMN

> RXA00470 (1-1200, translated) 400 residues

MIEDMSNTPA PYTPQPAQQA VPLYPTFTRS RDGRVVAGVA SGLAKHLNVS VFWVRALLIF  
 AALLSGAGLF AYALIWIFTR IEKKGSGEAS TSKRWVSWCL VLLAIGGAAA SVMLSTGFAV  
 GTLVPIGVVG VGLLMVWLAY DRGVESGPNL LIIATGGVLM LVAIVLIVMN WNTQDGFVMA  
 LVAVVLTIVG VAALGVPLWV RMWDQLGEER AEKAAAAERA DIASRLHDSV LQTLALIQKR  
 ADDPAEVARL ARGQERELRQ WLFDSQDKTP QTTGTFTVFTAL ERACGEVEDI YALRIVPVTV  
 GTDEALTEKT QAAVMVAVREA LVNVAKHAGV ETADVYAEIM LGELNIFVRD RGAGFDPDNI  
 PDGHHGLAES VQGRVERAGG KVRKSEIGE GTEVAITMDV

> RXA00471 (1-690, translated) 230 residues

MVDVFLVDDH SVFRSGVKAE LGNAVTVVGE AGTVADAVAG IKASKPEVVL LDVHMPDGGG  
 LAVLQQINDS DVDITFLALS VSDAAEDVIA IIRGGARGYV TKSISGEELI EAINRVKSGD  
 AFFSPRLAGF VLDAFAAPDS AAGAGIVDAP EKDAAVESGK ILDDPVVDAL TRRELEVRL  
 LARGYTYKEI GKELFISVKT VETHASNILR KTQQSNRHAL TRWAHSRDL

> RXA00499 (1-957, translated) 319 residues

GNDILEKPTA EVVEYLSHLR ADGIVRDAEA LRKHLGVNQW NLLGQSFGGF TTLHYLSRHA  
 DSLDNVFTIG GLSAIDRPAE DVYANCYNRM RRNSEEFYRR FPQLRETRFG LVNRARAGEI

VLPTGEVVSE TRLRSLGHLL GSNDGWFDLY NLELDPTSN AFVHDLAGLL PFGNRNPIYY  
 VLHESSYADG VVTNWAAERV LPEDFREDPT LLTGEHVFOE WTDTPVPSLKP WKDVALALAQ  
 QEWPPLYDAK ALENSQAKGA AAVYANDVFV PVDYSLETAQ HLPGVQLFIT SQHEHNGLRA  
 SSGAVLKHLE DLAHGREVR

> RXA00500 (1-675, translated) 225 residues  
 VLVLALDTST PDLIVGVVDS DTGNTRAETI IEDTRAHNEQ LTPTVQKTLL DANLSFSDID  
 AIVVGCGBP FTGLRVGMVS GAAFGDALGI PVYGVCSLDA IAHNIGARNI PHALVATDAR  
 RREIYWATYR SGERDQGPV IAPANIQISG AVDTISIPEH LVEKLPEELQ NVTMHSKPA  
 PASLVAVADF SVEPQPLVPL YLRRPDAKEP KPKPKSAAIP EVDLS

> RXA00501 (1-507, translated) 169 residues  
 MSEQFELREL RREDAGRCAD LEQILFPGDN PWPRDVFAVE FSHPTNFIYIG AFDEGYLVAY  
 AGLAMMPAD DPEFEIHTIG VDPEFQRKGL GRVLMDQMMH AADSHDGPVF LEVRTDNVPA  
 ISMYEAFGFK TLAVRKNIYR PSGADAYTMQ RPRLSDRKDQ QTDTEGTPS

> RXA00502 (1-1032, translated) 344 residues  
 MIVLGISSC DETGVGVVKL DGEGLLEILA DSVASSMQEH ARFGGVVPEI ASRAHLESMV  
 PVMREALRQA GVDRPDAAVA TVGPGLAGAL LVGASAAKAY AAAWGVPFYA VNHLGGHVAV  
 ANLEGETLPH AVALLVSGGH TQLLEVDVAV LPMKELGSTL DDAAGEAYDK VSRLGLGYP  
 GGPIIDKLAR RGNPEAIAFP RGLMKKSDSR HDFFSGLKT SVARYVEAAE RNGEIVSED  
 VCASFQEAFC DVLTFKAVRA CRDVGAKVLL LGGGVAANSR LRELAQERCD KADIELRVPR  
 FNLCTDNGVM IAALAAQRIH EGAQESPIV GTDPSLSVET PQVF

> RXA00566 (1-606, translated) 202 residues  
 MPTSRVLP FIEQSAYGTK ETNPYAKLFE ERIIFLGTQV DDTSANDIMA QLLVLEGMDP  
 DRDITLYINS PGGSFTALMA IYDTMQYVRP DVQTVCLGQA ASAAAVLLAA GAPGKRAVLP  
 NSRVLIHQPA TQGTQGVSD LEIQAAEIER MRRLMETTLA EHTGKTAEQI RIDTDRDKIL  
 TAEAELEYGI VDQVFDYRKL KR

> RXA00567 (1-591, translated) 197 residues  
 MSDIRMAAQ GPGFGNDVFD RLMSERIIFL GSQVDDEIAN KLCAQILLLS AEDPTRDISL  
 YINSPGGSVT AGMAIYDTMK YSPCDIATYG MGLAASMGQF LLSGGTKGKR FALPHARIMM  
 HQPSAGVGGT AADIAIQAEQ FAATKREMAQ LIAEHTGQTF EQISKDSRD RWFTAQEAKE  
 YGLVDHVITL AEGPISN

> RXA00569 (1-1026, translated) 342 residues  
 MRLKKQLLGS LLVVIVVLSI AVATTKQKQG FVTGQPTGAL NLSIDLDSEE LGEYHLMSAA  
 IITGNTVDFS GLGAGPDDPF EIASITKIFT GELLRLQIER GEITESTAVG DVLGERVADS  
 LIRDITVEEL ANHTSGLPRL GNVGLRPFMA TFFDKNPYKD LSADRVISIS TTSKLNSRGE  
 FHYSNLGFAL LGQVLARNAG LTFDQLLDRD LLAPLNLNNT KLMTPESLAQ DAPQGFSTPG  
 KQVEAWEMDG FLPAAGLRST ARDMAVFCQY LFTKGPAPFT WQSLESAPEI VWHNGESFGY  
 SSVLFFNTAT TTAIFVAADV ATSVFPIGHE LLMANSTRQE SK

> RXA00594 (1-933, translated) 311 residues  
 VSTTNSLTKL VASTVAAGVL GALALVPFAS LSGVAVARTN DTMQTNLSDL TDGRGPGVTT  
 ITDSTDQPIA YIYAQRREFV GGDQISTSMK DAIVSIEDRR FYEHDGVDLQ GFGRAILTNL  
 AAGGVEQGAS TINQQYVKNF LLLVEADDEA EQAAAVETSI PRKLREMKMA SDLEKTLISKD  
 EILTRYLNIV PFGNGAYGVE AAARTYFGTS AAELTIQSA MLAGIVQSSS YLNPYTNHDA  
 VFERRNTVLG AMADAGAI SP DEASAFQOEP LGVLETPQGL SNGCIGAGDR GFFCDYALQY  
 LSEQGITQDM L

> RXA00612 (1-1185, translated) 395 residues  
 AAAAIQOGAG LDTMLDVPSR YEVKMGSGG AANCPANTYC VENAGSYAPR MTLQDALAQ  
 PNTAFVEMIE QVGVDTVVDL SVKLGLRSYT DEGSFDGESS IADYMKDNNL GSYTLGPTAV  
 NPLELSNVAA TIASGGMWCE PNPIASVHDR EGNEVYIDRP ACERAIDAET ASALAVGMSK  
 DTVSGTAASA ASMYGWSLPT AAKTGTTESN QSSAFMGFNS NFAAAPYIYN DGTSTPLCS  
 GPVRQCSSGN LFGGNEPAQT WFNMASNVPA ASQGTLPSSS DSFRLGTSGE LLNQVVGQSE  
 ASARRTLEAK GYKVTTRSVS GAGSARGTVV SATPQGA VLI DGGTVILDIS DGTSPAPAAT  
 NNDDSDGDT PAPSTNNRGT TIEDAINDAI NQFFR

> RXA00615 (1-582, translated) 194 residues  
 MTASVFYFVVL SVVVLIDCIL PLIPSETVLA LAGAWSGARG TPNLWLVISV ATLAIIIGDN  
 LCYFFGTRLI NMVNRIPGES RRGKALEWAR KNLNERDVST IIIARFIPWA RWFVTIILGS  
 VGYSWSRFIV WDSIGALIWA TQATLLGYVG GWLFQEQPLI GLVAGAALGI FFGFFLQWLN  
 KMWERRRLAK VAAE

> RXA00621 (1-783, translated) 261 residues  
 MSERLNAPQA PIHPITRTHH GIDFVDNYEW LRDKESQETL DYLEAENAFD KQETEQLATL  
 RDNIYEEIKS RVKETDMSIP VRAGKHWHYS RTEEGKSYGY SCRIPVTEGS DAWTPPVIPE  
 GEPAQGETII MDANELAEGH EFFSMGASSV TTSGRYLAYS TDVTGEERFT LRIKDLTGE  
 LLPDTLTGIF YGATVVGEEY LFYQRVDDAW RPDVTVWRHKV GTPVEEDVLV YHEPDERYST  
 WVGTTTRSEKV HPFWLRLQDH L

> RXA00622 (1-1416, translated) 472 residues  
 MNVIPPGWAP LVQKKFILFG CASKITSEVR VLPFDQPEGT PEVLIPRAEG VEYDVDHAVV  
 DGSDIWLVTN NAEGPNFSVG WAGVDKLNLS DALAPLVAHK DDVRIEGVDT YRDFIILGYR  
 SGAIGQVAIM KLIDGTFGDF QQLEFDEEII TVASGGNPEW DAPVIRLSYG SFTTPAQLFN  
 YWIESGERTL LKQQEVLGGY KPSDYVASRL WVTAKDGAQI PVSLVHRTDL DVSKPNPTLL  
 YGYGSYESSI DPGFSIARLS LMDRGMIFAI AHVRGGGEMG RGWYDNGKTT TKKNTFTDFI  
 DVADALIEQK ISAPEMLVAE GGSAGGMLMG AIANMAGDRF KAIEANVPFV DPLTSMMLPE  
 LPLTVIEWDE WGDPLHDKDV YEYMASYAPY ENIEAKNYPN ILAVTSLNDT RVLVVEPAKW  
 VAQLRATATG GEFLKTEMV AGHGGVSGRY EKWRETAFEY GWLINQATGV TE

> RXA00636 (1-1029, translated) 343 residues  
 MMIDTPAVLI DRERLTANIS RMAAHAGAHE IALRPHVKTH KIIEIAQMQV DAGARGITCA  
 TIGEAEIFAG AGFTDIFIAI PLYLTDHAVQ RLNAIPGEIS IGVDSVEMAQ ATAGLREDIK  
 ALIEVDSGHR RSGVTATASE LSQIREALGS RYAGVFTFPG HSYGPGNGEQ AADELQALN  
 NSVQRLAGGL TSGGSSPSAQ FTDAIDEMRP GVVVFNDSSQ ITSGACTEKQ VAMTVLSTVV  
 SRNVSDRRII LDAGSKILST DKPAWIDGNG FVLGNPEARI SALSEHHATI FWPDKVLLPV  
 IGEQLNIVPN HACNVINLVD EVYVREADGT FRTWKVVARG RNN

> RXA00639 (1-660, translated) 220 residues  
 MTSAEQIVDP TAHDGSKAT DKFKANRVSS DTSKERANAI YVDLLAAIAQ VAHKHEVTYE  
 EYAVLKQWMI DVGEYGEWPL WLDVFVEHEI EEINYNRHDY TGTGKSIEGP YYVENSPLKLP  
 WDAEMPMRDK DRACPLIFE GQVTDLDGNG LDGAEEVELWH ADEGGYYSQF APGIPEWNLN  
 GTIVTDEEGR YKIKTLQAP YQIPHGPTG WFIESYGGHP

> RXA00640 (1-249, translated) 83 residues  
 MSTPVSNLAS VQKTLDBALE DRPEEGIVRV NRNIPTDPEI FELEMRHIFE GIWMDMAHES  
 QIPNGGDYFT TYIGCQRIMI TRS

> RXA00641 (1-1041, translated) 347 residues  
 VRRVPKLESY RGFLFGSLND DVVSLEEHLG DTRTVIDMLV DQSPEGLEVL RGSSTYTYDG  
 NWKLQTEGA DGYHVSSTHW NYAATTSRRG TGESANETKA MDAGTWGKQG GGYFSYPYGH  
 MLLWMWGNP EDRPLFERRD EFKKEFGEEK GEFMVGASRN LCLYPNVYLM DQFSSQIRHI  
 RPISVDQTEV TIYCIAPKGE SAEARANRIR QYEDFFNATG MATPDDLEEF RSCQKTYQAS  
 AFPWDMTRG LGHQVQGPNE VAKGLGMNEV LSSGARTEDG GLYPHQHGFW HELMQEAVNK  
 QSIKEKELAD DTASSLATVA AAKIREEAKA AAKSDAGEPR RRRRTG

> RXA00642 (1-492, translated) 164 residues  
 MSEITRSEIE AFLYYEARLL DDRKFEEWLE CYREDAEFWM PAWDDNGELT EDPQSEISLI  
 YYPNRRGGLED RVFRIRTERS SATSLPEPRT GHSTTNVEIL ERRDGEVDIR FNWITFYRY  
 NTTDTYFGTT FITLDVSGET PKIVKKKVVL KNDYIHHIVD IYHV

> RXA00643 (1-1536, translated) 512 residues  
 MTHQVALAFE DGITRFIDCE DDQTVADAAQ QARINIPFDC RDGACGTCKA FCESGDFDEG  
 DYIDDALSED EAADGYCLPC QMTPKTDLIL QIATTSVLAK TGASTFDGEL KEINHFSDDT  
 IGIEIELENR QDLAFLPGQY MNIQVPGSDQ TRSYSFSCAQ DSGNVQFLIK VTPGGLMTTY  
 LTDHAKVGDK LTLTGPMGSF FLREPVRPIL LLAGGTGLAP ILAILEKLSR DELLDVPIRL  
 VYGANFTHDL VELDRDLAFK DKFDFDYITV LSDKDETEPR KGYVPAHLTG EYEPDEDTDV  
 YLCGPPPMVE AVRQFLGTLE HPPLDFYIEK FTSAAAPAAG KPEITVETSE VAEDFNLEVE

STPGMSSGEV HSSATQLQAR MALELGALEL AINKLGERDI ERFRLADIA NSFIDGDKFI  
 DAVKFTEANA DFHEFLFRRRA NNEALLAAYQ NLQVVQEMNA TLPGAEWIDP AIATEHLALV  
 DAVSQNDLET ARTIIREHAE HGIDTMVKAL EK

> RXA00644 (1-828, translated) 276 residues  
 MSAPVGQIE GRPTHVTPER FFGQGVVVTG AAQGIGMAVA HRIAYEDGNL VLVDRSPLVH  
 EVAEELRKAG AGTVDSFIAD LETFEGATDA LEFAGQKLKN LDVVINNNGG TIWAKPYQEY  
 SEEEIRKEIN RSLFPTLWMC RAALPILIGN GGGTIVNVSS IATGGINRVP YAAAKGGVNG  
 IVSAMAREAA PHNVRVATA PGGTLAPERA VKRPGPEGE LEEKWYQQIV DQTIDSSLMK  
 RYGTLEEQA PICFLASEEA SYITGSVMPV GGGDQG

> RXA00650 (1-636, translated) 212 residues  
 MIRVLLADDH EIVRLGLRAV LESAEIEVV GEVSTAEGAV QAAQEGGIDV ILMDLRFGPG  
 VQGTQVSTGA DATAIKRNI DNPPKVLVVT NYDTDTDILG AIEAGALGYL LKDAPPSELL  
 AAVRSAAEGD STLSPMVANR LMTRVRTPKT SLTPRELEV LKLVAGGSSNR DIGRILFLSE  
 ATVKSHLVHI YDKLGVRST SAVAAAREQG LL

> RXA00658 (1-318, translated) 106 residues  
 VRHDEHYPA ANLIAFDKGW STLIAPQLED PEAEFTAGF LLEYQDNLIT AGMEHQALAS  
 GFPVGRRFKS DIALRRCDV TTHIGHEHSA DGHWRIVFA GQATPQ

> RXA00659 (1-621, translated) 207 residues  
 VEASDGGTFD VENPATGETI ATLASATSED ALAALDAACA VQAEWARMPA RERSNILLRG  
 FELVAERAE FATLMTLEMG KPLAEARGEV TYGNEFLRWF SEEAVRLYGR YGTTPEGNLR  
 MLTALKPVGP CLLITPWNFP LAMATRKVAP AIAAGCVMVL KPARLTPLTS QYFAQTMLDA  
 GLPAGVLNVV SGASASAIN PIMEDDR

> RXA00663 (1-996, translated) 332 residues  
 LGDNDTRILA VAKNLQEEGH NVVLVSKDLP MRIKASASGI AAQEYRAALA RDRGYTGMTH  
 ANITDDQLSE LYDTGEVRIE ELEKLVPNHG FTLKSNSGSA LGRMNSDKII ELVPGDQQVF  
 GISGRSAEQR VAIDLNDDA VGIVSIGGPA GTGKSALALC AGLEAVMERR IQRKIIIVFRP  
 LFAVGGQELG YLPGDQEEKM GPWAQAVFDT LSSMVSQNII DEALSRGLIE VLPLTHIRGR  
 SLHDAFVIVD EAQSLERNVL LTMLSRIGQN SRVVLTHDVA QRDNLRVGRY DGIVSVVEAL  
 KDHELFGHIT LQRSERSRIA ELVTQVLDAP SL

> RXA00675 (1-483, translated) 161 residues  
 CGATFDGWVG DSAWSFGIGE LDEDVQGLNL ATEWVLMEGM KAMVPGNRLT DVSHALEVAT  
 RKAESKFGVA LGIVDGYGGH GIGRHMHEEP YLANEGKAGK GPVIEGGSVL AIEPMLTLGT  
 EDSAVLEDDW TVVTLDGSWA SHWEHTVAAT KGGPRILTPR Y

> RXA00689 (1-627, translated) 209 residues  
 MRNTGQTCYI STRIIPSSR YAEVVQTVAS TIAAGRQGD YDEETVFGPV ASASQYSTVM  
 SYIDSAREEG ARVVAGGTRS ISLSEGLESG EFIQPTVFAD VTPDMRISRE EIFGPVISIL  
 KYDDTNGVSE AIALANNTKF GLGGLVFGAD EEQALEVARQ VDSGSGVINF FGSNHSAPFG  
 GRHESGMGVE YGIEGLSAYL TYKSIHRTI

> RXA00715 (1-795, translated) 265 residues  
 VVTVDWLSHN LDRDDVIVLC ATMEDDEIAR QAGIPGAFLA DLEGDFSDPH SELPHTAPPN  
 LVGLLESYGI STDSTVVVYD LHGLMVAPRV WWLLRVAGLS SIGVLDGGLP AWVDAGLPTE  
 PLSLPTSGGR ISAEPPDLL VGASGVERAI ARSSKAVIDA RNASRFAGVE EEPRPGLRKG  
 SIPGSVNIPF TDISDEHGFV RPAELKELI FSRTNGAQL VFSCGSGVTA CVDAYAAVIA  
 GYDDVVVYEG SWAEWGNPAN QKPIA

> RXA00744 (1-942, translated) 314 residues  
 MGNWAEITDE ISKIYQDNQY KIRQINDVDA VSDKRREALQ ALFEHTGRNV IVYYSAWLEN  
 GRRFSGQSTD FSVNDTDKNS FMTALHKLDQ SKGLDLILHT PGGDVAATES LVDYIHALFG  
 QDFRVIVPQL AMSAGTMIAL SSKEIVMGKH SSLGPIDPQF NGLPAHGLLE EFEQAKKEVS  
 ENPQTAHIWQ VILNKYNPTM LGEAKKAIQW SNSMVKQWLE KGMFLDEPDK EEKATRAIKE  
 LADHSVTLAH NRHISVSKAL ELGLNIKELE SDPKLQDLVL TLHHLSVIAA QRGPLIKFVV  
 NHDNRGTFLQ GHEN

> RXA00756 (1-996, translated) 332 residues  
 VNIDVQALKA IESEKGIPVP DLLRTIASAL LHSYMDNRET VASANLKPRV DIDSTTGTVN  
 VIVSEFDENG ELASEYDDTP SNFGRVSARA VRDAIVKSLR EAEASRAFDA YADYEGTVVS  
 GIVQADARAA ERGIIIVQLG TEADNQDGV LPAEQIPGEK LKHGDRVKCF VVGVGKGN TD  
 IQINLSRTHP ELVRRLEFELE IPEVADGSVE IVAISREAGH RSKVAVQAKV KNLNAKGACI  
 GPRGQVRVSN MRELGGEEKID IIDYSEDPAT FVGNALAPSK VVNVEVTDLE AQTARVTVPD  
 YQLSLAIGKE GQNARLAARL TGWKIDIHSD ID

> RXA00772 (1-1506, translated) 502 residues  
 MSDRIASEKL RSKLMSADEA AQFVNHGDKV GFSGFTGAGY PKALPTAIAN RAKEAHGAGN  
 DYAILDFTGA STAPDCDGV L AEADAIRWRM PYASDPIMRN KINSGSMGYS DIHLSHSGQQ  
 VEEGFFGQLN VAVIEITRIT EEGYIIPSSS VGNNVEWLNA AEKVILEVNS WQSEDLGEMH  
 DIWSVPALPN RIAVPINKPG DRIGKTYIEF DTDKVVAVVE TNTADR NAF KPVDDISKKI  
 AGNFLDFLES EVAAGRLSYA GYIMQSGVGN VPAVMAGLL ESKFENIQAY TEVIQDGMVD  
 LIDAGKMTVA SATSFSLSP EYAEKMNNNEAK RYRESIILRP QQISNHPEVI RRVGLIATNG  
 LIEADIYGNV NSTNVSGSRV MNGIGGSGDF TRNGYISSFI TPSEAKGGAI SAIVPFASHI  
 DHTEHDVMV ISEYGYADLR GLAPRERVAK MIGLAHPDYR PLLEEY YARA TSGDNKYMQT  
 PHDLATAFDF HINLAKNGSM KA

> RXA00773 (1-1143, translated) 381 residues  
 VTLKIGPFDL ASPVVLAPMA GVTNVAFRTL CREQEMQRTG TISGLYVCEM VTARALVERN  
 EKTMMHTTFA PDENPRSLQL YTVDPKYTYE AAKMIVDENL ADHIDMNF GC PVPKVTRRGG  
 GSAIPYKRRL FENIVSAVK ATEGTDIPVT VKFRV GIDDE HHTHLDAGRI AVDAGAKSVA  
 LHARTAAQRY SGEADWNEIA RLKEHLADTG IPVLGNGDIF AASDATRMME QTGCDGVVVG  
 RGCLGRPWLF AELSAVRGE EIPEEPTFGE VTQIILRHAE LLMQHDGETK GLRDLRKHMG  
 WYLRGFPVGG EFRSNLAKVS TYVELEDLLA PWADSTAKAE DAEGARGRQG APAKVALPDG  
 WLDDPEDATV PKGAEMENSG G

> RXA00778 (1-834, translated) 278 residues  
 RNNFAAAQVA FGGSDSAMKD DQAAEAEARC NGNEAWHLPF VIGPVAVAYN LPGVDTLNLD  
 TNIIAQIFKG EITKWNDEAI ASQNEGTDLP DQDISVLYRS EESGTS DN FQ KFLGASTDIW  
 ETEGQQFPTE VGSGAQGSNG VASEASNIEG AITYVEAGFA NQSGLG VANI DFGSGPVELN  
 AESVGVALGA LDFLT EGHNM VVDTDAMFAM NEAGAYPLIL TTYEIVCSAG YDETTRDQVK  
 DFLTVALDSQ DDQLEALGYI PVTGEHYDRL VAAVEAIQ

> RXA00787 (1-594, translated) 198 residues  
 VSQPLSKRLS IRKALASAFI VALAFSLSPV AKAQANETPT MIVLDNSGSM TAQDAGGQTR  
 IDAAKQASTQ LINDISDR TD VGLTY YGGNT GETEADVEMG CQDV TILGGP SRGNADTLID  
 TINS LQPRGF TPIGKALTD T AAELPEGGNI VLVSDGIANC TPPDVCEVAQ ELAQSGINLV  
 INTIGLNVDP AAREELEC

> RXA00791 (1-828, translated) 276 residues  
 LFLTDL PQES RFWKIPVEPG ETISVSANTV TDPTVLTMGQ GGIKLEAQLH TEEAPQYGLR  
 GRCTRVSFDN FKPG LGVRGI QNASVASKEV GTNNC DTD AI YLEISRSGDY LNGQDIPT EI  
 TIERFGKVDE STIGNVTEEH SSVDLTEAAA SEAH PVT PGQ WFTSAADLDP AGEKVSSII V  
 PGETHFYALP VDYQELRAA VETTFDQIDS SALGTHLYIQ AFSPNRAEIE LTNRDTSYAD  
 DNGLKTFGFF TPVSAANLFE KSSQGISLRS PWQGGT

> RXA00793 (1-1176, translated) 392 residues  
 MSENNPTTLH WFLPTYGDSR GITAGGHGFG FHSGSRTADL DYLSQIALAA ERNGFESVLT  
 PTGLWCEDAW ITTAALLSRT SKLKFLVAIR PGQVSPTIIA QQGA AFQKFS NNRL LINVVV  
 GGEDHEQRAF ADYSSKEERY HKADETLEII DHLWNSAEPL NFQGEFLSVE NAVLKEQPEV  
 SPPIYFGGSS QLGIEIAAQH SDVYLTWGE P AEKVEEKLAR VRAEADKRN R ELDYGIRLHV  
 IARPTED EAW SVAQNLLDQL DQEEVARIQE GLARSQSEGO RRMTELHGQG AAFTAGADAR  
 SLEIAPNLWA GVGLVRGGAG TALVGSYEQV AQAILRYRDI GLSHFIFSGY PHLEETYHVG  
 EGVVPELLKL GVPVNNHEEQ RNDVVATPFI SR

> RXA00797 (1-360, translated) 120 residues  
 MATAENTTQE NRKILFNAFD MNCVAHQSPG LWTHPKDKAR DYNTLDYWVH LAKTLEKGLF  
 DGLFIADV LG TYDVYGS SNE AALSSGAQVP VNDPILLVSA MAYATKNLGF GITAGTAYEH



> RXA00820 (1-363, translated) 121 residues  
 VNTFADATDD QQWIHTDPER AKDGPFGGAI AHGFLTLSMI IPFWGELLDV TGVTTKVNYG  
 LDKVRFTSPV KVGSRIRMGA VVREISEVKG NGLHLVADGT IEIEGQERPA VVATFLTRFY  
 A

> RXA00833 (1-369, translated) 123 residues  
 MAKTHFQGNE TATSGELPQV GDNLAEFNLV NTELGEVSSK DFQGRKLVLN IFPSVDTGVC  
 ATSVRKFNFA AASLENTTVL CISKDLFPAL GRFCSAEGIE NVTPVSAFRS TFGEDNGIVL  
 EGS

> RXA00844 (1-834, translated) 278 residues  
 MSSASFTTKA LSVLAALTA SAPLVAASPA HALANARNVT GSSTTSDSIV RLHIGNTACT  
 GTMITPTWAI TARHCIPEGG IAGAAIGSST LSQFQQVSQA ILHPTADLAL VELPNQASSN  
 TVDLYGAHVQ PGENGQAAGW GGYSAFQONV AQQADVQIQR RVVNVPSADR TAVLLEGTVS  
 NGRVLPGDSG GPLYINGQLA GVLSMSTDVE NDALDGTVGW YIPVAEHAEW IAYYTGKHIA  
 PIAGAPAEV DATANPTFIP APQPFTGSSI GGWALGSS

> RXA00857 (1-1290, translated) 430 residues  
 AVGIEVPNSD REMVRLGDVL NARATVENKD SMLIGLGKDI EGDFVSYSVQ KMPHLLVAGS  
 TGSGKSAFVN SLLVSLTRA KPPEVRLILV DPKMVETPY EGIPHLITPI ITQPKKAAAA  
 LQWLVEEMEQ RYMDMKQTRV RHIKDFNRKI KSGEIEPTPG SKREYRAYPY IVCVDELAD  
 LMMTAPKEIE ESIVRITQKA RAAGIHLVLA TQRPSVDVVT GLIKTNVPSR LAFATSSSLTD  
 SRVILDQGA EKLIGMGDAL FIPQAGAGKQ RIQGAFTVDE EIQAIVDMAK AQRQPEYTDG  
 VTEDKASEAK KIDADIGNDL EDLLEAVELV VTSQMGSTSM LQRKLRIQFA KAGRLMDLME  
 TRGVVGPSEG SKAREVLVKP EELETILWML KGADPADAPK EETWDDEVAA EAEAAANTTV  
 VQADPSKGV

> RXA00860 (1-894, translated) 298 residues  
 MTARRAADTS EERTGSAFRA VGSGIGTLFG ATASGLGKMT RSIGELGRRR NEDVLDDFDD  
 FEEIATKPA TRKSRKAVE PEPEFDEDFD EQSGNRTSAY VEEHADGIAL SLVGIAIVLG  
 AAVWLIGGGP IGTFIADIVH LAIGAGAWIL PVGLIGWAVA LMLRYTPERQ AQRVMLGIG  
 VIIVCMLALI HLFAGNPAEW EGRKTAGGAI GAWIGTPLEL GFSVFLAVPI LLLLLFWGAL  
 KTTGISIREF IEFAGGFFGF AGFNDRDEDF DEEDDDLYGH VERELESRAS GRAPSRTP

> RXA00866 (1-945, translated) 315 residues  
 MNDSRNRGRK VTRKAGPPEA GQENHLDTVP FQAPDASSNQ SAVKAETAGN DNRDAAQGAQ  
 GSQDSQGSQN AQGSQNRRESG NNNRNRNNSN RRGGRGRRGS GNANEGANNN SGNQNRQGGN  
 RGNRGGGRRN VVKSMQGADL TQRLPEPPKA PANGLRIYAL GGISEIGRNM TVFEYNNRLL  
 IVDGCVLFPS SGEPGVDLIL PDFGPIEDHL HRVDALVVTH GHEDHIGAIP WLLKLNDIP  
 ILASRFTLAL IAAKCKEHRQ RPKLIEVNEQ SNEDRGPFNI RFWAVNHSIP DCLGLAIKTP  
 AGLVIHTGDI KLDQT

> RXA00877 (1-1065, translated) 355 residues  
 AAAVGTEGYV VPLELPTVQS EQAVLITESAS RAKLYEASQK RGASLNKDVL LETVRLRAER  
 ATLLGYDTHA DYVIEETAD DVA AVRALLY DLAPAASANA KAELYKLSAEE AEEHGQKVG  
 ADWSFWEAKV RARDYALDET ELRNYFPLNQ VLRDGVFFAA NRLYGITVEP RPDLRGYAEG  
 VDVWEVLDSG GSGIGLILTD YYGRPSKRGG AWMSSFVDQS ELLGTPVNV NMVITKPTT  
 GEALLSLDEV TTIFHEFGHG LHGLLSKVRY PSFSGTSVPR DYVEFPSQIN ENWAFDPAV  
 RNYARHVDTG DIIPDSLLEA VEACGISDRV VEHVSTCPHL LSTCPVSPCP QRMPH

> RXA00888 (1-1017, translated) 339 residues  
 VTAPRKTRTE VITTVLNLER TLAQTVLGIN DENLRVLDNQ IDCIDIHVRGT HVELTGPAHE  
 VSRASKIFEE LQAIARRGHV ISPETVKNVI SMINVETPQT VSEILTGDIL ARRQKVRPK  
 TLGQKHVYDA IDTNTIVFGL GPAGSGKTYL AMAKAVQALQ SKQVSRIILT RPAVEAGEKL  
 GFLPGTLNEK IDPYLRPLHD ALRDMVEPEV IPKLMEAGIV EVAPLAYMRG RTLNDAFVIL  
 DEAQNTTPAQ MKMFLTRLGF GSKMVVTGDI TQVDLPGGQK SGLRLVRHIL RGVDDVHFSE  
 LTSSDVVRHQ LVGHIVDAYE DYEEREAREL KRKRQETRP

> RXA00892 (1-894, translated) 298 residues  
 MSATSSVTVE CPAGTITGEP HYFRSIPYAK ARPFADAELK EPLRIDATGK HEGLYTLAT  
 PEARFGADAP VIVYIHGGY DGGTRFDART EPTFFREQGF VVVSIDYRVG LEGFARFDD

EANRYRGIDD CVLALWVQK NIEHFGGDPT NVTLIGQSAG AGIALWLTRL DHYKGAFRRL  
 VALSPSPFRQ PFAARKGALR RALGKPVTRA SLAGIKPARL DKGYYRRFARR YFTDLALGPT  
 PYDPNELADI DLIISSTRDE MYGHRAGLWF DQRGFGAKLA ARLFGLENSD TNIKEAPR

> RXA00905 (1-693, translated) 231 residues  
 DPNLLEDYAG AKEWVKETLT NAGLTVSEFA AEDGTTNFIG TRKGSEGAPK VLLYSHFDVV  
 PSGPLDLWDT NPFELTERDA GHGTRWYGRG AADCKGNLVM HLAALRAVEA SGTDTLNLTY  
 VVEGSEEMGG GALSALIKDK PELFDADVIL IADSGNASVG TPTLTTLRLG GGQVTVTVDT  
 LEGAVHSGQN GGAAPDAVAA LVRVLDTLRD EHGRTVIDGC QHHRKLEGRA L

> RXA00903 (1-633, translated) 211 residues  
 MGNPLAVIAD ADDLSAEQMA RIRWNTNLSE TTFLLKPTQE GADYRVRIFT PTGELPFAGH  
 PTLGTAHVFR ELHGEQGTQL VQECVAGLVA VRAIDGPASG LAFQAPPTLK DGPLDASDL  
 AACEALGISP DFIRAHQWVD NGPGWAVVEL PSAQHVLDEL PDFSAHPTLK LGVIGAYPEG  
 APHAFEVRAF AQGIGEDPVT GSLNAFIAQW L

> RXA00906 (1-504, translated) 168 residues  
 MNTDAPLSTA VNTTANWKGE PYDPETFRSD AGILDGVDIM GDGDNPASML WSRPAISITG  
 FTSTPVAEAL NAVPATASAK LNLRVPALE ANDVAEKLKQ HLINHTPWGA KITVEIDDIN  
 QPFSTDITGP AMSTLASCLS AAYEGKDLVT ESGGSIPLC TELIEVNP

> RXA00907 (1-123, translated) 41 residues  
 LALYGVVEPL TVIHSANESV DPNEIRDIAT AEALFLLNYT K

> RXA00912 (1-273, translated) 91 residues  
 MDNTLYTAGL TIAAAFFMLS FIFTIYRIIV GPNSIDRLG LDGTVSMIQC SMATYICWTL  
 DTTVTNFMV IALLGFISSV SVARFRKRDG A

> RXA00944 (1-972, translated) 324 residues  
 VDFWTILDTM TSLLTPIAIR GLEIPNRMWL APMCQYQANN LDGVPLDWHL VHYGARAVGG  
 FGLLIAESTG ISPEGRISR CTGLWNEAQV EAWERITNFV HAQGGIGVQ LNHAGRKAST  
 YPALPNFPTG TQSVDEGGWE TFGPSAVAQP GLADPTLRL EGIEKVIQDF AAAAERAVRA  
 GFDAVEVHGA HGYLLHQFLT PLANKRTDIY GGSFENRRL FREVAQAIRA VIPGSMPLIA  
 RISATDWIDD EPSWDDQTV SLVSGSEKAG CGCSRYFHRR CSTRDNPCGA ELSSEICSSC  
 EARGGYPYLR GWINYSKSGS AGAS

> RXA00961 (1-432, translated) 144 residues  
 LENWRIGRML LLGDAAHAPL QYLASGAVMA MEDAEAVAF AADAARAGNL DWEEVLAEVE  
 AERRPRCSRI QTVGRFWGEL WHVEGTARLI RNEVFRQADR NGWFIYADWL WGYDASKRAH  
 IANPELGEMP QALKEWRYAL LEQK

> RXA00964 (1-1125, translated) 375 residues  
 MGAPGKNDYA TEHVQEVPP ATPEEQALD TMYKRMDDLH LKPLWTQIGG LMPNHPEPRA  
 VAHKWDWAE LKLAQRSGEL VPVGRGGERR AIGLANPGLD GNTYISPTLW AAIQYLAPGE  
 NAPEHRHSQN AFRFVIEGEG VWTVVNGDPV PMRRGDFFLT PGWNYHGHNN IATEPMAWLD  
 GLDIPFAYQM DTGFFEYGTG KLTDESTPDL SRSERLWHP GLRPVSFPKG TSYSPIGRYA  
 WEHTDAALND QLALEEAGHP GTVAPGHAHI RFSNPTTGGD VMTTIRAEFH RLRPGASTAP  
 IHEVGNRCFQ VFEGSATINV GDKTFEANHG DVINVPSWQK WNIVAGSDGV DLFCFSDTPI  
 FEALNLARTF TPEGI

> RXA00977 (1-1014, translated) 338 residues  
 MPTAAQENI RWECCPPQVD IASACGSID VPMHYSDPSL GDISVGFVKV PAQGEKHGTI  
 FGNSGGPGGD AYSFFGSQSM NWPEAMYQNY DLVAVQPRGM VGSTPVNCDN IAPGYDFLSL  
 LTREGAFVKE SCEIGTPGYT SSLTTDNAN DWERVRQALG DDKISIFGLS YGTYLGSVYA  
 TRYPQHTDKV VLDSAMAPSL AWNGIMASQE QGYKNSLND FTWVAENNDT YGLGTTPLAV  
 YQNSNKKIVA ETGTNPTVAP PPAQVGDVPP AFAWAGQAGA DMMTATNPTS VQLQGLATQL  
 LNPGSNQSLS PLLNVTRAYI PGPSTWPLMA GAISGQTP

> RXA00982 (1-246, translated) 82 residues  
 SQLAVQPLL QGTSDPQTPY WTHNELADAM NAHVVTVNGP GHGQSIGGTN QAINDIVVDY  
 LRTGHTDATW VEGNTPTPIT AG

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> RXA00983 (1-1197, translated) 399 residues
VTAGETTTMN VTLTNPFDNA IFDRAVSLER PEGWQAEDVR VSIPSGESVT IPVQVTAPLV
ADNGELPVEV SILDGADRYT GRLNLTVQGG QEPAPTSVKV SIPNLKDTYV AGEKISINFA
VNNPFDVTN SVPSLGEGEN WMPANLRGFD PEQGTPTNCRY KNLGANKSYD CTTTTYEVS
LDVERGYVDI PTVWFTFTNSA GETVWSKNVD VPRVELNGTQ DAVTDAIVTV DPINPVHSNG
QSQTVEVQAN VTSEGDLPAQ SKVAFYLDSS PIDTAAVDAE GHASISIDVD NIASEQPERT
FEVRARLVVP EDAPRSIARD ALARFTVLSE QVQQNSLVIM NHPDVFSDDGQ TKTIVIAAKA
TAHDGSPAII GTLIAFRVNG IERDVVPTNA QGTAKLQLD

> RXA00984 (1-417, translated) 139 residues
QRGTPVLLGE TPWMKTKIVE LSDGTLMNNS RSSGADTYRK VSYSTDGGVT WTEPTLDTQL
PDPRNNASLI RVFPTAPEGS AQAKVLLFSN TATTSGRTNG TVRMSCDDGQ TWPVSKVFEP
GAIQYTSMAT LPNGDIGML

> RXA01014 (1-1578, translated) 526 residues
DDLWLNESFA TWSAAISQAE ETEYNTAWVT FANVEKSWAY QQDQLPSTHP VFSDGYDIET
VDQNFQDITY AKGASVLKQL QAYVGREEF L AGVRRHFANH AWGNASFDL LGALEQSSGR
DLSWANQWL KTTGINTLGA KFTTDNGKYT SFSVTQTGAA PGAGELRTHR IAVGLYKLVD
GSLNRYARVE LDCSGASTSV EEIVGLEQAD FVLVNDLDDLT YALLDLDDDS RNFVIDNIDK
FSDPMPRTL V WSAAWEMTRA GQMKARDFIA LVARGAAET EIAVLERILA QATSALKSYA
DPAWAEATGN DLLADAFLEG ARSAEPDSOT QLAFIQALAK ATLNDAAADY FRDILAGNVE
GLTVDPDLRW WALTALIARG DIEAVEDAIA AELSRDNSSA SFLASLRAGA AVNTEEVKAA
AYKHVPAVDS GLSNLELRHK IEGLTFTGSF ELLQAYNEQY FEILDDVWAN FSGEMAQQIV
LGLFPSWNVS EEGLKRTDEF LDGEHVAGIK RIVSESLDRT ARALRN

> RXA01018 (1-864, translated) 288 residues
LTSTNLTRQE ASDRSRLLSV ENYDIALDLN NGDEFFSSST VVSFTVRKAG DTFIDLRAAS
VEEVRLDNVS IKDEALTGK NGYDETFGIA LKGLTPGAHT LRVASIPYS RTGEGLRHMV
DPADNEVYLY TQFETADAKR MFACFDQPD L KATYDLNIKT PKGWKIISNS EQQVSTQHTD
YDTHISRVDY PLSTYLIAVC AGRYHEVCDV WKGTLTTHAE TPADQPTLT VPLALYCRSS
LAKDLDAVRL FTETKQGFOW YHRNFGVAYP FGKYDQIFVP EFNAGAME

> RXA01022 (1-804, translated) 268 residues
HFSDGSLYAT ADVIFPVLHG RFGEDGTVOG LFALSDIPV GPGVLASAAG MDKEYTKKLM
AAEGLPVGRE VILRDRTLT EAENKLLGLP VFVKPARGGS SIGISRVTAW EDFNKAVGLA
RAHDEKVIVE SEIVGSEVEC GVLQYPDGRI VASVPALLSG TESGAGGFYD FDTKYLDNVV
TAEIPAPLDE KTTIELIQSLA VESFQALACE GLARVDFFVT ANGPVLNEIN TMPGFTPISM
YPQMFTASGV AYEELLDVLV QQALHRDN

> RXA01055 (1-102, translated) 34 residues
MWGVVLGPAT GKYLAELMAT GNTNPIIKPF DPLR

> RXA01056 (1-900, translated) 300 residues
MSSSGKVIVV GAGIVGLATA WHLQEHGFEV SVLDRDGVAA GSSWGNAGWL APAKTIPLSE
PGLWYGPKE LFNVPSPMHM PLRVDPKLWL FLAQFMAQAF QKWDSTMA D L TEIDKVALE
AFDELSIGGV EGLTHEGPFV IGFEERQSA GFRKEIDGVS RHGQKVEMSR LENPQELAPM
LNEQIQVAYR LEGQRFIEPG PYVQSLADAV VKRGGVIRAG AEVVHVAKGD RPAVILADGS
REEADKVVVA TGAWLPGLTR EYGVKTLVQA GRGYSFSVAT DIPAKHSVYL PHHRHGLHAV

> RXA01057 (1-1503, translated) 501 residues
LPEGQSGTIV LVSDGIATCT PPPVCEVAAE LADQGVDLVI NTVGFNVDES ARAELECIAQ
AGNGTYADAS DADSLVAELK RAATRTAVGY ESDLEQIDGN SSQTSLTPIP DDVELFKADL
PALDNKDGEV TQYWSIPVED YERVQVTTSY VAPVTFGLGN DYLSIRNELL FGDEQDQTC
RSISNDQILD NYGARPLVAS VESDVIGDKC DTDELVLAIT RSQPFNWEEE LPVEIVVKRL
NHADTSGPL GDQOREIPDL DVAAVQTWAP TTGGSWFTNA TELTPGEGVE AEIVPGENHV
YRLPMATQOQ LHGFVEVVEN TAPDDPGVTD KLGVAVYSPT RQDAGVDMWT DIAPREGTSE
YFAAPVALTY LNMFPAGEGGF GTTSKATSTF TFEGDYLLV HYDDLSGSTI RDASNQSQSF
LRYRLAADAFA GDAEPGPVFE KVSATTSSE SPSTQPD EPA QNTATEESST GISPLIVGAI
VALILAFAAF ASWLVLKGRK K

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> RXA01059 (1-609, translated) 203 residues  
 MTTVTQDLLA LDEDAQNLLF REARTANAFT DEPISEDEQIE AIFDLVKWAP TAMNSQPLRV  
 VIVRSEEAKA RLVPLMAEGN QAKVAAAPAV ALLAADIDFH EEMPKLFPPF PGARDMFEAD  
 EASRASSAEL NAGLQIGYAI IGIRAAGLAA GPMTGMDADA ISKEFFPDGR HRVLVAINMG  
 KPADNAWYDR LPRLEQDEVV ETL

> RXA01073 (1-831, translated) 277 residues  
 MTNTQTEIIN ELKVSPAIDV AKEVEFRVQF LVDYLRASHT KGFVLGISGG QDSTLAGRLT  
 QLAVERIRAE ENSTDYVFYA VRLPYAIQAD EDDAQVALEF IAPDKSVTVN VKDATDATEA  
 TVAAALELPE LTDFNRGNIK ARQRMVAQYA IAGQLGLLVI GTDHAENVNT GFFTKEFGDGA  
 ADLLPLAGLS KRQGAAILEH LGAPSSSTWTK VPTADLEEDR PALPDEEALG VSYADIDNYL  
 ENKPDVSEKA QQRIEHLWKV GQHKRHLPAT PQENWWR

> RXA01082 (1-660, translated) 220 residues  
 LTQWGNNSNV EDYLTALFRA EEWDEEPTTG KLAEVIGVTA STVSATLKKL NPEGFVNYP  
 YGDIELTPAG RDIAINVIRR RRIIETYLSE KLGLGAHELH GEADLLEHAV SPLVLEKMFQ  
 AVGYPTLDPH GDPIPTESGE MTINDGLMLL GLKAGASATV TRVRDGNPSV VRYLTGVGIT  
 VGTTVTVVEA LSDIATLRLQ IGEMFQDIPL AVANAVRVSR

> RXA01090 (1-312, translated) 104 residues  
 MALPLPSKSA RALVTGASQG IGLAIAKDLA RYGHNLILVA RREDVLKEIA ADLEKKHGV  
 VEVRPVDLSD EPARKVLIDE IKTREINIII NSAGIGKLWA VQGP

> RXA01113 (1-237, translated) 79 residues  
 GDIWERPGLD HTQRRLLTIA ILTAVGNDGE LDMHIRAALR AGVDQETIGE VILHTAVYAG  
 VPNSNHGFKL LNNAVSDLQ

> RXA01117 (1-741, translated) 247 residues  
 MINKSISSTA EAVADIPDGA SIAVGGFGLV GIPTALILAL REQAGDLTI ISNNLGTDFG  
 GLGLLLLDKK ISKSIGSYLG SNKEYARQYL EGELTVEFTP QGTLAERLRA GGAGIPAFYT  
 TAGVGTQVAE GGLPQRYNTD GTVAVVSQPK ETREFNGQLY VMEEGIRADY ALVHAHKADR  
 FGNLVFRKTA QNFNPDAAMS GKITIAQVEH FVDELHPDEI DLPGIYVNRV VHVGPQETGI  
 ENRTVSN

> RXA01120 (1-1278, translated) 426 residues  
 MARMQESADL LKCSFCGKSQ KQVKKLIAGG AVYICDECIE LCNEIIEEEL GQAQHDEQER  
 NELPKPSEIS AFLDITYVIGQ DPAKRILSVA VYNHYKRLRA SETIGRRRND EPETELVKS  
 ILMLGPTGSG KTFLAQTLAK LLDVPFAIAD ATSLTEAGYV GEDVENILLK LLQAADFVDE  
 RAQRGIYID EVDKISRKSE NPSITRDVSG EGVQOALLKI LEGTVAAIPP QGGRKHPNQD  
 FIQLDTTNIL FIVAGAFSGL EKVIADRNGK KGLGFGVEVS SKKEEANIVD IFKDVLPEDL  
 VKFGLIPEFI GRLPVVATVS NLDQKSLVKV LTEPRNSLVK QYRRLFEMDD AVLTFTDDAL  
 EEIANQALER KTGARGLRAI MEEILVPIMY DLPDRKDVGE VIINGAVARG EAPEMLEAV  
 AEEKTA

> RXA01224 (1-1023, translated) 341 residues  
 MSILDTLKTTP VIVAPMAGGP STPALVNAAA EAGSLGFLAG GVMPLQLKQ ELSEVKGVFG  
 VNLFRPQTDA PKPSDIDELA GLLSSAFRQF GLDEPTVPTP DLSNGWEAKF EAVLAAKPAV  
 FSCTFGIFSA EEFARIKATG IEAWVTVTNP EDALAAQKAG ANALVVQGPE AGGHRSTWSI  
 EVEPDERDLK TLLAAVKQAG VYLPLIAAGG LSTSADVAAL LEAGASAASC GSAFLLSDEA  
 GTSSLNREIL DAAPALGLES VSSRAFSGRY ARGVETRFTR SNEGLPPLYP YLNPMITSLR  
 KVAGSAGNWD YAYCLVGVGL ESIAKGSAKQ ILESILTPSAL G

> RXA01126 (1-564, translated) 188 residues  
 SAESLPPTLF LKPPTAVTGP ESPIRIPSFA TKVEFEGELA VVIGKPCKNV KADDWKSUVL  
 GFTIINDVSS RDLQFADGQW ARAKGIDTFG PIGPWIETDI NSIDLNLPI KARLTHDGET  
 QLKQDSNSNQ MIMKMGEIIE FITASMTLLP GDVIATGSPA GTEAMVDGDY IEIEIPGIGK  
 LGNPVVDA

> RXA01147 (1-1260, translated) 420 residues  
 MHVTDDFLSF IALSPSSYHA AAVERLLH EGFIRQEDTD EWDARPGGHV TVRGGAVVAW

WVPEDASPDG GFRIIGSHTD SPGFKLKPRG DLSSHGWQQA GVEVYGGPIL PSWLDRELAL  
 AGRIVLADGS VKLVNTGPIL RIPHVAIHL RTVNSQLTLN PQRHLQPVFA VGE PDVSILD  
 VIAGAAVVDV ADIVSHDLIT VATQDAEVFG AHGDFLASGR LDNLSSVHPS MTALIAASQS  
 DDTGSDILVL AAFDHEEVGS NSTSGAGGPL LEDVLNRTAR ALGADEDERR RMFNRSTMVS  
 ADAAHSIHPN FPEKHDQANY PIIGKGPVLK VNANQRYTSD AVTSGMWIRA CQIAGVPHQV  
 FAGNNDVPCG STIGPISATR LGIDSVDVGI PLLSMHSARE MAGVKDLMWF EQALEAYLVN

> RXA01151 (1-858, translated) 286 residues  
 MSSPTDSSPS NSFSDFNREE QSRLSDEVRO LKRTNSDLGA RNAKLAEMLK SSRDKLSVLF  
 SQLEDMAQPP SVYGTFLTA KDGSNAEIFA GGRMRVAVS PMLCAADLMP GVQVRLGEGN  
 QVLEACDFEQ TGELATLMEM IGRDRALVSD RSGEERVVKL AGPLMDRTAK LPRPGDTLLV  
 DRKAGYAFEA IAKTEISRLA LEEAPDVSYQ DIGGLDDQIE LIQDAVELPF LHPEMYRAYN  
 LHPPKGVLLY GPPGCGKTLI AKAVANSLAN RIGETGTSYF INVKGK

> RXA01161 (1-1137, translated) 379 residues  
 MS DPSTNNFP TS VYAQRLAD AQEGARKAGL NGLIIGTGAE LAYLTGSWIS THERLTALVI  
 PSEG TATIVL PAVDRGDLAL SAIPGLDINV AGWVDGDNAL ELAVDALGVS EF EALGIGSS  
 ITADHLIPIQ NLVGSTCRME LAVQVLKELF VSKDEAEIEQ LRGAGAAIDR VHAKVPELLO  
 DGRTEAEVAA QLNDLILEEH SEVDFVIVGS AENGANPHHG FSDRVLRNGD IVVVDIGGTF  
 GPGYHSDCTR TYIVGGNPDD ADPEFAKFYQ VLYEAQLAAV AHVRPGVTAE SDAVARDHI  
 AAAGYGEYFI HRTGHGIGLS THEEPFIMAG NSLVLEAGMA FSIEPGIYIE GIHGARIEDI  
 VVVNEDGCET LNNQPKELR

> RXA01181 (1-957, translated) 319 residues  
 SVLLARDLVN TPSSHLYPES YSVIASNEAS KHGLQTTILD EKQLADQGFQ GILAVNGNSS  
 RKPRLLRIDW KPRKAKKSIA LVGKGITFDT GGISIKPGAS MENMISDMGG SASVLATIIA  
 AARLNLSINV FAFLPMAENM PSGDAFRPGD VITHFGGITS EILNTDAEGR LILADAIAYA  
 SEDKPDYLD AATLTGAQLV ALGLRTSGVM GTDEFDRDVA KTGREVGEQA WAMPLPEELD  
 EQVKSPVADL RNVNTRFAG MSAAGRYLQE FVGADIEWAH VDIAGPAYNT AGEFGYTPKR  
 ATGQPVRTFV QVLKDLSES

> RXA01182 (1-393, translated) 131 residues  
 VFNLFGKTP RSNLRPPRGP GDTVRPEDLK FLMQWVQDKP FVEAFVEPET LVNEMSVVLV  
 DAHG VFVRRR IGGPKGIDVI AKKLGVPVYD VEETGYPQRM RERIEYERIL RKREEQKARR  
 AKFERGENPD L

> RXA01189 (1-609, translated) 203 residues  
 MISISIADDE ALIASSLATL LSLEPDLDVR PTAGSGEELI ETWADPSNRT DVCVLDLQLG  
 GIDGIDTATR LMETTPDLAV LIVTSHARPR QLKRALAAGV LGFLPKTSTA DEFATAIRTV  
 HAGRRYIDPE LAAMTISAGE SPLTNREEEV LELAGQGLSA EEIAVAHAHLA PGTRNYLSQ  
 AMTKVGAQNR FEAFTRAREL GWL

> RXA01192 (1-573, translated) 191 residues  
 VAARYADTYL TWGETPDQVA QKINWINELA AQRGREL RHG IRFHVITRDT SEEAWVVAEK  
 LISGVTPEQV AKAQAGFATS KSEGQRRMAE LHSKGRAFTS GSTARDLEVY PNWAGVGLL  
 RGGAGTALVG SHEEVADRIE EYAALGLDQF VLSGYPNLEE AFHFGEGVIP KLLRRGV DIK  
 NQESRVLEPV G

> RXA01214 (1-1491, translated) 497 residues  
 VLAATVVGAQ VLVACSSDDV RGYGGEPTL PIPPADLGTR EGSSVHFALE AQTGESQILP  
 DVTTKTWGFN GTHLGPTLVV KKGDDVHVDV INNLDGMTTV HWHGMKLPAL ADGGPHSPIG  
 PGQTSWPTWT VANDAATLWY HPHTHGLTGL HAYRGLAGMI IVEDEATDKL DLPREYGVDD  
 IPLVLMDHRF LEDGSLDEED LPDLGLLGDT PTANGITNAH FDATA TRRVF RVLNGSNMRF  
 YNLAFSDTRT FQVIASDSGL LDEPQDR TTL AIGPGERWEI VVELEPGEDV TLESVGFEDN  
 YGVPDDEFVP DFGMSDSFQL LTITGPSDDA AQAPALPGVL VKSTEPDVID ATERTFIMNT  
 FSINDLQMDM QRVDVVIDHD QPEVWIVTND NSDWPHNFHV HDARFKVLKF EGTDELVELND  
 GWKDTVGLPP GATATLAVEF GHYPDPQWPY MYHCHMLYHE DQGMGQFVI VEPGDEPAAV  
 LSGTGSSID SAGGHAH

> RXA01224 (1-1023, translated) 341 residues  
 MSILDTLKTP VIVAPMAGGP STPALVNAAA EAGSLGFLAG GVMPLEQLKQ ELSEVKG VFG

VNLFRPQTDA PKPSDIDELA GLLSSAFRQF GLDEPTVPTP DLSNGWEAKF EAVLAAKPAV  
 FSCTFGIFSA EEFARIKATG IEAWVTVTNP EDALAAQKAG ANALVVQGPE AGGHRSTWSI  
 EVEPDERDLK TLLAAVKQAG VYLPLIAAGG LSTSADVAAL LEAGASAASC GSAFLLSDEA  
 GTSSLNREIL DAAPALGLES VSSRAFSGRY ARGVETRFTR SNEGLPPLYF YLNPMTSLR  
 KVAGSAGNWD YAYCLVGVGL ESIKGSAGK ILESITPSAL G

> RXA01232 (1-687, translated) 229 residues  
 MSRQXXTYTD KDISQFHWTN GLPPTDDESP EWIAARDNEW EGYTITLGDD PNGTEKTITL  
 DDLRELQTS YVAVXXXXQX LGQXXPXPX GAGYRDVLCH DLVHTLDLHH RHPRLLTIE  
 IIPKPLPET RCKIIDFDLF APNSPSIEEF CSRLKISRRS FYNIRNRYQQ DASAALHPRS  
 SAQITSRRY DESITSIXVG HXAHRLKAQG XGIRSDLYPI XKASXTXGN

> RXA01236 (1-945, translated) 315 residues  
 VLVATALIAG CSSAEDGTVD SGSSTEVTIT QSKEGFPVTV TFAPEAPVTI EDQPERIVSL  
 SPAITETLFA VGAGDHVVAV DEYSNYPEDA PLVQGLSGFT PNVESILDYD PDLVVLMSAD  
 DSILTGLDAA GVDTLVIPAA ENLDETYSQI EQVGRATGFE DQATTVVDDQM KTAIDAAVAT  
 VPEEVKEQGL TYFHELGS DLFTVSEQTYIG QIYDMFGLTS IADGGDAYSQ LSNEAIIAAN  
 PDLIFLSDAK AENLTAEDIA ARPGWDTIDA VANGRIYILD DDIASRWGPR VSQVVEEIAA  
 QLNQLASSEA VPAAA

> RXA01250 (1-588, translated) 196 residues  
 LDIGGIEAKT WGYVSDTGDA AIEATAGDVL QVDITNDLPE STSIHWHGIA LHNAADGVPG  
 MTQDPIEPGE SFSYVFEVPH GGTYFYHSHT GLQLDRGLHA PLIIRDPQDA EDQDVEWTIV  
 LDDWVDGIQG TPDDELDKLT GMGSGDHNGR MGMGGHGQMM HGTPDRVLGG DVGDVMYPHY  
 LINGRIPRAH RTFEAR

> RXA01254 (1-1269, translated) 423 residues  
 MKLSLPAPLR RLRSAAAIIS AKVATSASKA TGRSGGMIG GLVASKVDPD IMSNLINNR  
 TVLVGTIERK STTTRMLAA MRSTYTVATN EGGDNMDAGI ISALLAGRNA SHVVLEVDEL  
 HVPAAIERLK PDALVLLNLS RDQLDRVGEI NKIERVLRDA VRSRPEMTVI ANCCDDVLTS  
 VAFDAENVIV VGAGTGWQGE SATCPRTESR ILHDGRHWSA EKTLLDGRTF ARPTPSWEVD  
 GDTIHSPSGD LTLDLNLPQG ANRGNAQAII AASTVFNVV SSALPAVNSV NNVAGRYSTI  
 TVGEHKVHLL LAKNPAGWQE ALSMVDRTAD GLVIVVNGQV ADGEDLSWLW DVRFEDFENL  
 SVKASGERGT DLAVRLTYAE IDHELISNPV DAIAACPPGR IEVLANYTAF RDLKKALEKG  
 TEQ

> RXA01257 (1-846, translated) 282 residues  
 MHVAELSLPT GIIIAATPLG NIGDASPRLV HALANATVVA AEDTRRTASL AAALGVEIKG  
 QLVSNFDHNE QARVGKLEA ARTGTVLVVS DAGMPVVS DP GFALIDAAHD ANIPVTCFPG  
 PSAVP TALAL SGLHVGRFAF DGFAPRKQGA RTTWLESLKT EKRAVCFEES PHRIAETLAH  
 AAEVLGERRV AVCRELSKTY EQVKRGTLPE LAEWAQDGVR GEITVVEIGA GDIAADVDLSL  
 IDAAQQRVDS GERLKAVCAD LAKIHGVSKN ELYDAVISAR EN

> RXA01270 (1-1155, translated) 385 residues  
 MTNERIFLSS PDVTQLEEDA LVRAIRSGWI APLGPEVDAF EQELAEYCGR KYVVALSSGT  
 AALHLGLLAL GVGEGDLVLT SSMTFAATTN AIVYTGAPEI FVDCDESGNM DDLLEKAF  
 ELKSEGKEVK AVVPVDLLGK VVQHEKIKKI ADEYGAVVLS DAAESLGAIR NGKSAAAYGV  
 AAASFNGNK IMTTSGGGAL LTDDKDIADN VRYLATQARQ PVVHYEHTDV GYNRLSNIL  
 AALGRAQLSR LDKMIERRRQ HRAFYRELFA GVSQVEIFGE PSGVDGGDTI DNEWLTSILI  
 DKEVAGFSSE DLRSVLNQAN IESRPLWKPM HLQPVFKKYR SFTNEEGQRL FDSGLSLPSG  
 SVLDNASMNR VETTIGQFLE SQHAI

> RXA01277 (1-1689, translated) 563 residues  
 MTDYTFLEDI DTPEALAWAE KWSGESVEKL KSPAKDALEA RLLAALDIDD RIAYVSRERGE  
 KLYNFWRDAQ HPRGVWRTTT LESYESDQPE WDVLDIDVDAL AEDEGENWVW KGAVVRSPEF  
 DRALVKFSRG GADATVIREF DLATAAFVDD SPFELKEAKS DVTWVDLDTL LVGTDGEGS  
 LDTSGYPARV LTKRGTPLE QAEFFEGSR QDVATHAWRD STPGFERTFV SRSDFYNSE  
 TSLETEGGGLV KLDVPTDCDV IVKKQWIFVS PRDVFAGIPA GGLGVLLLKE FLEGGDFQF  
 VFTPTTESTSL QGLATTKNFL VLTLLNNVST EIVTVPLNDP TTEHEHIDL EHVTAHVAT  
 SPLDGEIIV QAASFTEAPT LLRAELPGAL EAVKKAPLQF ENAGQETRQH WATSADGTKI  
 PYFITGAFEE EPQNTLVHAY GGFEVSLTPS HSPTRGIAWL EKGYYFVEAN LRGGGEFGPE

WHSQATKLNK MKVWEDHRAV LADLVERGYA TPEQIAIRGG SNGGLLTSGA LTQYPEAFGA  
 AVVQVPLADM LRYHTWSAGT SWM

> RXA01288 (1-375, translated) 125 residues  
 MNGIGGSGDF TRNAFASTFI SPSAAKVDIAI SAIVPFASHI DHTEHDAMVV ITEYGYADLR  
 GLSPKQRPVK MIAIAHPDYR PLLEAYFDRA LNSADSYQHT LHDLRTAFDF HNRLNSQGT  
 KIEKA

> RXA01302 (1-366, translated) 122 residues  
 MTTTTSSGKS SEKINPLFKL GSFLRKGTVG SEGQQIFLQG GRQADVIFYRN RWAQDKVVR  
 THGVNCTGSC SWKVYVKDGV ITWESQAVDY PTTGADMPDN EPRGCPRGAS FSWYTYSP  
 IR

> RXA01303 (1-1335, translated) 445 residues  
 VTQLNTKGVV LQGWDPEDPE HWDSKIAWRT LWITTFSMII GFCVWYLVSA IAPLLNRIGF  
 DLSAGQLYWL ASIPGLAGGL IRLIYMFLPP ILGTRKLVGI SSGLFLIPMF GWFLAVQDSS  
 TPYWLLTLA ALTGIGGGVF SGYMPSTGYF FPKAKSGTAL GIQAGIGNLG VSIIQFMGPW  
 VMGFLLGIG FLTPQRTIEG TTVFVHNAAI VLVPTILAA VLSFLFLKDV PVTANFRQOI  
 DIFGNKNTWI LSIIYLMTFG AFAGFAAQFG LIINNNFGIA SPMAETYPAE MLHAGATFAF  
 LGPLIGALVR AAWGPLCDRF GGAIWTFVGG IGMTIATAAA AIFLSRAETP DDFWPFLWSM  
 LALFFFTGLG NAGTFKQMPM ILPKRQAGGV IGWTGAIGAF GPFIVGVLLS FTPTVAFFWG  
 CVVFFIIATA LTWIIYARPAN APFPG

> RXA01307 (1-681, translated) 227 residues  
 VLAWRDIVET PEKRKAYVSQ RGKGGILRVQ YEEAMEIAAA AHVYTIRQYG PDRIHGFTVI  
 PAMSQVSYGA GTRFLQMIGG VALSFYDWYA DLPPASPQTF GDQTDVPESG DWYNSSYLMM  
 WGSNIPVTRT PDSHEMVEAR YKGTKVVVVS PDFADSTKFA DEWARIHPGT DGALAFAMGH  
 VILKEFHVDK KTPYFMDYMR KYTDSFPLVE LDEHGDGTYT PGKFLTA

> RXA01308 (1-1206, translated) 402 residues  
 AATPNATHRL LVLQKDGSVV DPGGTVADRW GEEGMGKWNL RLDGVDPVMT IADVQTDDET  
 AEVLFPFRDL PATATQEGPI GAGTISRGPV TITLNGRKYT TVFDVLLAHY GVNREELNLP  
 GEWPKDFQDP VMGTPAWQEE LTGVPAQAI RLGREFQAQA DSKGRSQII MGAGVNHYFH  
 ADSIYRTFLA LTSMTGTQGV NGGGWAHYVG QEKLRPMNGW AQYAFATDWQ RPPRQMITTG  
 FYYLTDDQWR YDNTRANRLA SPLANRGTVG DKMTADTLVE SMKRGWMPSE PQFNRNPLIL  
 SQEAEKEGVS VSDHIVQQLT DGDLDQFACED PDAPENWPRI LLNWRNLMG SSAKGTEFFL  
 RHMLGVDSDA SAEKNAPEDR PSSIVWRDEA SEGKLDLMLT TD

> RXA01309 (1-669, translated) 223 residues  
 IADHEGTHIN WDMVKERSAE VITSPEWTGS KKDGRRYTAF SINIEYDKPW HTLSGRMHY  
 LDHDFIDYD EQLPIFRPPL DKIHINGEVG PGQSVTGTG EPEVTVRYLT THNKWSIHSQ  
 YYDNLHVLIS SRGGQVIWMS NKDAEKLGA DNDWIEAYNR NGVVSARAIV SHRIPEGT  
 MNHAQEPTAG TPLNEKSGRR GGTHNSLTRI MIKTVHVAGG YGT

> RXA01324 (1-300, translated) 100 residues  
 MSNSECHTHG YIEEKQRYLA RLKRIEQTR GIHRMIDEEQ YCIDILTQIS AVNSALKNVA  
 FGLLDDHLAH CVKEAADLGG DELDAKLKEV SDAIARFSA

> RXA01340 (1-990, translated) 330 residues  
 VGPVLAITPW NFPIAMATRK IAPALAAGCP VLVKPASET P LTMVKVGEII ASVFDTFNIP  
 QGLVSIITTT RDAELSAELM ADPRLAKVTF TGSTNVGRIL VRQSADRLLR TSMELGGNAA  
 FVIDEAAADLD EAVSGAIAAK LRNAGQVCIA ANRFLVHESR AAEFTSKLAT AMQNTPIGPV  
 ISARQRDRIA ALVDEAITDG ARLIIGGEVP DSGGFFYPAT ILADVPAQSR IVHEEIFGPV  
 ATIATFTDLA EGVAQANSTE FGLAAYGFSN NVKATQYMAE HLEAGMVGIN RGAISDPAAP  
 FGGIGQSGFG REGGTGEGIEE YLSVRYLALP

> RXA01354 (1-936, translated) 312 residues  
 MKISRRALFG TLLGATTALV TACAQSSQNQ NSSASSSSSS SAESSTSSSS SDEQRIVALN  
 TGQLDNLALL GITPVGVAAA KNSDLIPQFL KDRFGADMDL DSIADCGLRQ SPDIEAIANL  
 NPTLICANSR ADEEVLNKLR TIAPVVTGEG GGENWKQDLL TIAEAAGQKE KAETLLKSYE  
 DSAAEIAANQ PANPPTVSFL RTKDQEFQMY GAQSMAGTVA ADCGYARPEN QQFTDTAGQD

LSAELIAQAD ADWLFYGIKE GNINPEDTPL WTSKAVQSN QAIPVDGDSW YLNASLVSAE  
IILQGLKDNV TV

> RXA01358 (1-1521, translated) 507 residues

MALGRITISTA QLGVQAKIVR VEANVGPGLP GTYIVGLADT AISESRDRIK TAVQNSGLMW  
PKTKVIINLS PASMRKQGSQ CDLAMTVAVL VAHGSNPKAK FHAQNTLFLG EVALDGTLLP  
VTGVLPAALLA AKEEGIGKIV IPEGNAQEAG LVEDPSVFLA HSIDQVLRWL DGEEALPQPG  
LFNDENSLKL PDMRDVVGQP EARFAAEVAA AGGHHMLMIG PPGSGKSMIA ERIPSLPEL  
SPQQMIEATA VHSVVGRTFS GPVSRAPFIS PHHNVSKAAL LGGGSGSPLP GAISLAHHGV  
LFLDEVSEIP ASILDSL RTP LEYGSIRIIR SRHDVTFPAQ FQLILAA NPC RCGAEQPOEC  
VCSGSARATY LNNLSGPLRD RLDMMVATHS KGAVLRSDDV EASAPIADRV AQARERAAFR  
WRRSGLGNLV NAHVDPHFLR RNFAATEDAM VYLGAFLAEG TISQRGCDRA IKLGWTLCDL  
DGEQQPNLDH IARAMELRGT TYSEVAA

> RXA01385 (1-1881, translated) 627 residues

MQFHYEGYAT GDPMEMRAEG SGINRPDDL P EVMDVLIVGA GPAGTIAAAQ LSRFPNVTR  
LVERSDRRLE LANADGVHSR TIETFQAFGF AHEILAE AHE ITDMAFWKPD PQNPRIIRD  
NSTREL PQHI SEFPMALLTQ TRIIDHFNRF MKNSPTRMKP DYG YEFVD FE VEEDA EYPVI  
VTLRRTSGEQ TGELVTVRTK YLVGADGARS QVRKSLGYRL QGKQANHAWG VMDIHANTEF  
PDVRKKCTIK SDSGRTILLI PREGGFLFRL YVDLGEVPDD GSKAVRDTPL QDVIDTANQI  
MAPFTLDVKN VVWNSIYEVG HRVADHFDDR VSEKTSSEHP RIFIAGDACH THSAKAGQGM  
NVSMQDGFNL GWKLGHVASG NSPRELLQTY AEEREDIAYK LIEYDKNWST LMAKPSSEMG  
SAQDLED FRY ANSEFNAGYM THYPPSSITM DGSNQDLAKG YPIGRRFKSA MVGRVCD FTE  
THLGHQATAD GRMRAVVFAG SDALNGEGSE LDRWA EWAEA NLDPTLVDAK VIYQSPYTEL  
DTRQVPSVFK PAVGIFELTN VENSFGITTD SDIFDSREIS RDGVVVVVVRP DQYVSGIFPL  
TDTQGLGEFL TGYFPMKGA HQLINAN

> RXA01412 (1-204, translated) 68 residues

MALKNYTVEG MTAHCVASV TEEVSEVNGV SAVDVTLESG NVAVS GEGFS DAEIQAAVEE  
AGYKIVAS

> RXA01426 (1-627, translated) 209 residues

MTTPPAAAEI FGDNLEKAIA YHESLATDGS VRGFIGPREV PRLWDRHILN CGVIGEAMDE  
GISVADIGSG AGLPGIPLAI ARPDLNITLI EPLLKRSVYL NEVKEALNLD NVTVVGRGAE  
EKVVRKQVGL VDIVTSRAVA PLGKLATWSL PLVKIGGRMV AMKGSSVEEE IERDAKEIRK  
AGGTDIKVYT VGEALLSEPT TLISIRREK

> RXA01427 (1-921, translated) 307 residues

MEDTTWEDTP IAAAARRAAQ VMTPNSLTLP KPKEPRLITI ANQKGGVGKT TSTVNLAASL  
AIHGLKVLV DLDLPQGNAST ALGVEHRSRG LSSYELLIGE CTAD EAMQPS TANENLFCIP  
ATLDLAGEI ELVSLVRREY RLADALGREF IDKHDFDYMI IDCPPSLGLL TINAMTAVNE  
VLIPIQCEYY ALEGVQQLN NITMLRQHLN RQLHISAILL TMYDARTNLA EQVATEVNDH  
FGDVVLGNKI PRSVKVSEAP GYGQTVIEYD PGSRGAMAYL DAAKELATRG DYLPSEDESG  
IGLKPAK

> RXA01428 (1-1137, translated) 379 residues

MAQNKGSDKS QTEKRKGGLG RGLAALIPSG PSNSPGLGGG AADIILGGTV GARTAAAPKR  
ESTPAAPAPE APAQAAPQHT EATKPEVVPE PAAPAPTQSA QQEAPQAQPA QQSEFGASYL  
EIPIEQIRPN PQQPRHEFDP QALDELVHSI SEFGLMQPIV VRRSEDGYEL IMGERRWRAS  
KRAGLEVIPA IVRETEDSAM LRDALLENH RVQLNPLEEA AAYQQLLEEF GVTQAE LADK  
LGRSRPVITN MIRLLGLPVN VQTKVAAGVL SAGHARALLG LKAGEDAQDT LATRIIAEGL  
SVRATEELVL LHNRGDQDEE KKP REKAATP EVFTRAAESL ADNLDTKVS V MMGKKKGKLV  
VEFGDKDDFE RIMSLIQGQ

> RXA01430 (1-1188, translated) 396 residues

VSKVLRVGDR SPRVAEVRTT LARLGVIEGY SREMSAKTES QKFHEEETLF DEELSLSIKS  
FQQARGV VPS GLIDDPTLRA IREASYTLGT RVLAYQPGNQ LVGDDVVEIQ SHLQELGFYA  
DRVDGHFGE L THKAVMNYQL NYGMQVDGIC GPDTIRALSR LGLRIKGGSA QAIRERERMR  
NAGPRLAGKR VVIDPALGGS NKGQIVKGPY GEISEEEILW DLATRLEGRM IATGMETILS  
RPHMDDPSSR DRASIANAFG ADLMLSLHCD SYPNEKANGV ASFYFGSENG TNSLTGETLS  
AYIQKEIVAR TPLNCGSHA RTWDLRLRTR MPMVEVVTGY LTNPDDLAVL TDPQMRDHIA



EAIIVAVKRL YLLDEEAQPK TGTFKFSELL QSEQAG

> RXA01435 (1-870, translated) 290 residues  
 PLDLGFTTEA RQWLETLEGR IGDDWRHKWF SGITYLLDD YATAQVFFNH VLTILPGEAA  
 PKLALAAVDE LILQQIGAES TAYLTPDIVS ATATLSKDFE DLDASAFESL SDTWSHISSD  
 PHVVRFHSLR LYALVWATNP TTVSSAFGLA RQLMAENQIE LAVQALDKLP QSSTHYRMAT  
 LTTILLVSS NLSESRIIRA ARRLTEIPTN EPRFNQIKIA IMSAGLSWLR ERKLKASASA  
 NPLFEYPFSQ KGLRTGISEA LRIQARSAPF PHRYALVDM ANAVRPLSWF

> RXA01437 (1-1383, translated) 461 residues  
 MSDTPTSALI TTVNRSFDGF DLEEVAADLG VRLTYLPDEE LEVSKVLAAD LLAEGPALII  
 GVGNTFFDAQ VAAALGVPVL LLVDKQGHV ALARTQVNNNA GAVVAAAFATA EQEPMPLKLR  
 KAVRNHSNLE PVMSAELFEN WLLKRARAHE SHIVLPEGDD DRILMAAHQL LDQDICDITI  
 LGDPVKIKER ATELGLHLNT AYLVNPLTDP RLEEFQAEQFA ELRKSXSVTI DEAREIMKDI  
 SYFGTMMVHN GDADGMVSGA ANTTAHTIKP SFQIIKTVP ASVVSSIFLM VLRGRLWAFG  
 DCAVNPNTA EQLGEIAVVS AKTAAQFGID PRVAILSYST GNSGGGSDVD RAIDALAEAR  
 RLNPELCVDG PLQFDAAVDP GVARCKMPDS DVAGQANVFI FPDLEAGNIG YKTAQRTGHA  
 LAVGPILQGL NKPVNDLSRG ATVPDIVNTV AITAIQAGGR S

> RXA01458 (1-1050, translated) 350 residues  
 VNRIKTLTW GAIPVLVLLAS LVSIDHIPGT NINLSVPYAA EGPPTINTL GQVDGEDVVS  
 ISSADLDETE GNLNMTTVSV RSGMTLSQVI SRWLFTDDTI VPTEQVFPFG QSTEEVEESN  
 RTAFISSESS ATIAAMNYLN IPVEVEVAEV LTDSAATGIF EPGDKLLSID GTAISTPGDA  
 QTIVRSKAPG DEITISYERN DAESQATITL REHPDDSSVA LLGISMLSV SSAIEVDYNL  
 EDIGGPSAGM MFSLAVVDKL SPGALNGGKF VAGTGTIAED GSVGPIGGIA HKVRAEDAG  
 AEVFLSPADN CAEAMSAKPQ DMTILKVDLS SQAIDQMAAY NEGSDFQTCG

> RXA01461 (1-459, translated) 153 residues  
 MIDTGKNGEF RYEQSNIIDQ NEAEFGITPS QTVGPYVHIG LTLEGAEHLV EPGSEGAVSF  
 TVSATDGNPD PIADAMFELW QADPEGIHNS DLDPNRTAPA TADGFRGLGR AMANAQGEAT  
 FTTLVPGAFA DEAPHFKVGV FARGMLERLY TRA

> RXA01462 (1-690, translated) 230 residues  
 MDIPHFAPTG GEYSPLHFPE YRTTIKRNP NDLIMVPSRL GESTGPVFGD RDLGDIDNDM  
 TKVNGGEAIG QRIFVHGRVL GFDGKVPVHT LVEAWQANAA GRYRHKNDWS PAPLDPHFNG  
 VARTLTDKDG QYHFWTVMFG NYPWGNHNA WRPAHIHFS YGRQFTERLV TQMYFPNDPL  
 FFQDPIYNAV PKGARERMIA TFDYDETREN FALGYKFDIV LRGRNATPFE

> RXA01464 (1-291, translated) 97 residues  
 MLFLARMDDV FPDMSDADM ADFQAKEKAY SGDLQSRGIM KAIWRVVGEY ANYSIFDVDD  
 HDELHAILSG FPMFKYMNK ITPLAKHPNA LEYYLKG

> RXA01465 (1-1161, translated) 387 residues  
 VAGLFPLNQK AIEKLSDLTI QKVESRILDV PLIRPHGFAT TTSTEQHILL VSVHLENGVI  
 GYGEGVPPG PWWGGESVET MKALVDGYLA PVLIGRAVSE LAGIMADLER VVARARYAKA  
 AVDVAMHDAW ARSLNVPVRD LLGGTVRDKV DVTWALGVLP LDVAVAEIEE RIEEFGNRSF  
 KLKMGAGDPA EDTRRVAELA REVGDRVSLR IDINARWDRR TALHYLPILA EAGVELFEQP  
 TPADDLETLR EITRRTNVSV MADESQWTPA EALAVVKAQA ADVIALKTK HGGLLESKKI  
 AAIAEAGGLA CHGATSLEGP IGTAASLQFA ASTKAISYGT ELFGPQLLKD TYIVQEFYK  
 DGQVAIPQGP GLGVDVMDK VNFYTRK

> RXA01466 (1-822, translated) 274 residues  
 MTPNGRRQLL LERGAAFSKN RTPGLKHVDR HTIVDSGLS IHTYMGHAE NATATVVFH  
 GFTLAAEVY MQVDYLQTFY PNIKSVLIDA RGHGATGQIR PELCTIEGTA NDVLAAIHEH  
 APTGPLILVG HSLGGLTALN LVKRADHSLR KRIVGMVLA TSIESLSTQG LPQVLASPLA  
 DNKNAVEAA PNDAQKFRQY ATTFLLAPTLA TAVFQRTND EVIDFHAAMI HETPLDTFVG  
 FFDDLQEHDE LDAAPTLEGL KGYVLAGELD DVTP

> RXA01477 (1-1548, translated) 516 residues  
 MPQLSRRQFL QTTAVTAGLA TFAGTPARAE ERQFQHGVS GDPTATSAIL WTRLTPIPDA  
 TPGSGLGPD PVTWEVSPTP DFASITRSGT VITSAASDHT VHAHATGLSP STRYFYRFIS

STGEVSPVGR TQTTSLVDAP LPHLRFALAS CANWEAGFFA AYGDIARRAD AGELEMLIFL  
 GDYIYEYATG MFAGKDGVRV PHQPLHETIT LEHYRTRYGH YRSDNHLQAA HAALPWIVMW  
 DDHESANNSN REGAQNHSAD EGSWVDRQNA ARQVFLEWMP IRQEDTLYRS FTFGLATLS  
 LLDLRSFRDP APSQQQWLEG QRADTMMGSQ QFEWLKSNVE HTTTTWNIG SSVMFAPMAI  
 TGQPLFQIPE PIPANLDQWD GYSRERDRLL AVLADFATPT LFLSGDIHSE WANAIRFNDR  
 EIGVEAVCSS ITSANVNDFA KLPEDNPVSL QAEQVIRANS SHVRHVDLDA HGYATVNLTQ  
 DGAHVMVHRV ADLSLPDSEV APAIALEWKP GVGFTT

> RXA01498 (1-1563, translated) 521 residues  
 MIKRLPLGFL PKELHQTLLD LTANAQDAK VEVIAFFTGE TLGFGFDGDE QDVEHAFALS  
 RAAQKKVHT TAVERKKIFL KVHDLVLKNR ELLMDIVQLE TGKNRASAAD EVDVAITTR  
 FYANNAGKFL NDKKRPALP IITKNTQQYV PKGVVGQITP WNYPLTLGVS DAVPALLAGN  
 AVVAKPDLAT PFSCIMVHL LIEAGLPRDL MQVVTGPGDI VGGAIQAQCD FLMFTGSTAT  
 GRILGRMGE RLVGFSAELE GKNPLIVAKD ADLDKVEAEL PQACFSNSGQ LCVSTERIYV  
 EEDVYEEVIA RFSKAAKAMS IGAGFEWKYE MGSLINHAQL DRVSTFVDQA KAAGATVLCG  
 GKSRLPDIGPF FYEPTVLADV PEGTPLLTEE VFGPVVFIEK VATLEEAVDK ANGTPTYGLNA  
 SVFGSSETGN LVAGQLEAGG IGINDGYAAT WASVSTPLGG MKQSGLGHRH GAEGITKYAE  
 IRNIAEQRWM SMRGPAPKMPR KVSSTVATA LKLKGIKVL P

> RXA01499 (1-3822, translated) 1274 residues  
 LWDVLESVAS TYPEAAAIDD QVLTIAELM EEVTALADSI HAQGIIRGDR IGIRMPSGTR  
 DLYIAILATL AAGAAYVPVD ADDPEERAEM VFGEANINAL FDATEGHMLR PTAGGDTRRP  
 RLDDTAWIIF TSGSTGKPKG VAVSHRSAAA FVDAAEQMFL VDHPSPGLGP EDRVLGLSV  
 AFDASCEEMW LAWGHGACLV PAPRSLVRSG MDLGPWLIRR DISVVSTVPT LAGLWPAEAL  
 SQVRLIVGG EACSQELVER LSTPDREVWN TYGPTATV VACGTQLYAGQ PVGIGLPLAG  
 WDLVVVDAG EPVGIGEVGE LVIGGVGLAR YLDPEKDREK YAPLKSVMGT RAYRSGDHVR  
 LEEDGLYFVG RVDDQVKIGG RRIELGEVDA NVAALSNVRS SAVVVQTTGA DQKVLVAVVS  
 LEDAAAGFDH NVATARLTET MPAALVPRH VMDDLPTTTS GKVDKKSPLW PLPGTVVEAN  
 DLSATEAWIA QEWVDILGTS VSSKDADFFS LGGTSLAAAT LVGRVRKVP TAAVRDLVDH  
 PRLEKFAERV EAIAADTGIS LEAPNQVEER VVKPVSGTR VMQTLIQIPI MTLQAAQWIA  
 WLLLGNNIMA ALDFWAVHV SWWLVIEMIL VFATPIGRLP IGGWGARIIT RGITPGSYPR  
 GGSTHLRIWS AERLADASGS RNISGATWVN YFARSLGVKM GKGVDLHSLP PITGLLTGN  
 NVSIEQEVLD RGYWLDGDIL RVGTIEVHDN ARIGARSTLL PGTVVGTGAH LLPGSTVTGD  
 KTIKPGSRWA GSPAQKVGRA KHRFPTSHPP RRSRWVPVFG ATSIVLSLLP LQALAIGAAI  
 TLWLATISPL PLIWGVLFVA TVGALAAFFA YTVTIWVLR LIQIGIKGGT APVRSRLGWQ  
 VWAVQRLMDD ARTYLFPLYA SQTPLWFRS LGAKIGKDVE ISTAVMVPKL ADIREGAFLA  
 DDTLIGGYEL GNGWLLSGET RVGKRSFIGN SGIAGPERKL AKNSLVAVLS STPKKAKANS  
 NWWGSPPERM RRVTVVEVDEG EAKTYSFGFG VKFARGAVET ARLLAPITSG VLAALSLLL  
 QYLLTEFNMW ITWLLGGLIL MTVGVLAMGI TVVMKWVCVG KHKPSEHPLF SRFVWLNELQ  
 DAFVESVAGP WFLVPLNLTG ALNAGMSALG AHIGRGAWIE SYWLPETDLC YIGKGATVGP  
 GVVVQTHLFQ DRVMSLDTVT VADGATLADH SVALPASLID ASATIGPGSL VMRGDKVPAH  
 TRWQGNPIEP WSNS

> RXA01502 (1-1233, translated) 411 residues  
 MSTPQSIVII GGLLAGAKTA EALRVNGYEG SITLIAAEDY LPYERPPLSK EYMAGKVGFD  
 KAIVHPAEWY KENNVTLRQG VRATAIDAGS RQVTVDGDN TETINYDKLV LATGSARVKL  
 PIPGADASN HYLRTVEDSD AIKATFGEKG KLVLLIGGGWI GLEVASAARG AGTDVTVLEG  
 GKPLLLKVLG ETVAQVFADL HVANGVDLRT EVKITDIVTE DGRAVGVRLD DGEVVPADAV  
 VIGIGVTPVI DLAEATAGLEI DNGVLVDAAL RTSDPDYAV GDIANHDPV LGHRIRVEHW  
 ATALNQPAAA VKSLLGKDAE FTNLPYFFTD QFDLGCEYVG HATGSQEKVF IRGNLETREF  
 VAFWVDTENR ILAAMNVNVW DVPDQIKPLI ASGKSVDTEK LVDPEVPYSE L

> RXA01509 (1-474, translated) 158 residues  
 MSIEVTVEIP KGSRNKYEID HETGKVYLDL YLFTPMAYPL DYGYIDHTLG EDGDPLDALV  
 ILPESVFPV VVKSRIIGVF KMTDEAGGDD KLLSVLDDPR YDHIQDISDV SDFLKDEIEH  
 FFFHYKDLEK GKHVDSGSGW DKAEEAKIHA EADRYKA

> RXA01510 (1-1281, translated) 427 residues  
 MKNAAWVGSS VGVLIAGAV IGGGVVWNHS GFGLDHPEPM SVEMPEQLFS SAIDPDALVA  
 PDFATLEKDL TSQAADSRGL TFGVGVARDVE SGEVVWEQNQ GTAVRPASAT KILTAVALY  
 ELGREDTITT KVVEGEQPGT VVIKAGGDVT LSEEMLDDLA TQLEGQDIGT VLIDTSIWPD

EGFASTWDPV DVDAGYIADV EPAMIEAARI GGSEGDLP RS HTPALDVAQA LADRVGADTV  
 DEGSAPDKTV LASVESDTLD QRLARMMKDS DNVMAEGIAK EVAASKDLAT DSASTSKMTL  
 EILKDKGFDL SGVSIVDNSG LSFNLIITPR LLDDILTRAA TEPELSSLLT SLPIAHGTGT  
 LEDRYDGLSG AGWVRAKTGT LTDT SALAGV VTSESGRVFT FAFVSNGSAI VPAREALDEM  
 ASILRDF

> RXA01511 (1-942, translated) 314 residues

VASLIGNLEL PRVSPNFLEL RKAVRPYLKE HVHIGLSGGP DSLALVAAVL AEKSQVTAIC  
 IDHNLQTGSA EVTHNAAAMA RHMGAQAIVK SIEVAPGEGM EAAAREARYA AFAQLTDEIW  
 VAHTMDDQAE TYLLGGRLGN PAGMKDASRR PELSIIRPLL GARRAHTHGA CVELGLKPWH  
 DPQNFDDAFR RVAIRNQVIP LLAQVHGGDP VPGLALAARR AVEDAEEVVEG DVEKRRLEWQ  
 DGFPVTLAGE PTGLRRRMLA DFLRGEIGIAV TSRKLDADR LLTDWRGQGG VAVGKSDNGR  
 LEVVRQSGKL KITD

> RXA01513 (1-2559, translated) 853 residues

MKNKKYLQFG GIAAVILIVL FLVSLFSSDT RNFQEVDTSV AMAQLDAGNV AEAQIDDREQ  
 RVRLTLREPI TVDEREGVEE ILAQYPARTA PAIFEKVEAS NTDSYTTNVT QESFLMSMLS  
 FILPMVIFG LLMFFLTRMQ GGGMFGIGGS KAKQLTKDMP TNTFADVAGA EEAVDELHEI  
 KDFLEDPTRY EALGAKIPRG VLLYGPPGTG KTLARAVAG EAGVPFYSIS GSDFVEMFVG  
 VGASVRDLF KQAKENSPCI IFVDEIDAVG RARGSGMGGG HDEREQTLNQ LLVEMDGFGD  
 RQGVILMAAT NRPDVLDPAL LRPGRFDRQI PVTNPDLRGR EQILEVHAKG KPFAPDADIK  
 ALAKRTAGMS GADLANVLNE AALLTARVGG NVITADALEE ATDRVVGGPR RSGKVIKE  
 KKVTAYHEGG HTLSAWALED IERVYKVTIL ARGRTGGHAM TAQEDDKGMY NRNELFARLV  
 FAMGERSAEE LVFGEPTTGA SADIEMATKI ARSMVTEYGM SPAVGMVKYG QEQGDPPFSGR  
 GGGGNLDHSQ EVAATIDTEV QFLDKAHEV SYSILAEYRD HLDRLAEKLL EKETLRRPDL  
 EALFDDIVPR KVAEVFPDES TRFPRQENRE PVKTPVELAL ERGEEPPKKF SILEASRATR  
 ERRRKELEAQ GKLPVQPASS AGVAPAAGAA AGSYGTPPPA DWSVPGSAGK HRSRAEEQPA  
 EQGFPAQTPA QAPEQSPDSS GGRPNPYATP TASGEHPPGMK AYGFQDSELM DQSTGAETP  
 GNVSQESPTM MIGFRLPDHE RSDYPEKAQK ESVLDASETT EMPVVPDQPI DGDSGKSAEG  
 TQENPENEGD NRG

> RXA01571 (1-600, translated) 200 residues

VSISVKALQK SGPEAPFEVK IIERDRPRAD DVVIDIKAAG ICHSDIHTIR NEWGEAHFPL  
 TVGHEIAGVV SAVGSDVTKW KVGDRVGVC LVNSCGECEQ CVAGFENNCL RGNVGTYSNS  
 DVDGTITQGG YAEKVVNERN FLCSIPEELN FDVAAPLLCA GITTYSPIAR WNVKEGDKVA  
 VMGLGGTRTH GCPDRCSQGC

> RXA01589 (1-837, translated) 279 residues

YAE LGVKKIR ITGGEPLMRR DLDVLI AKLN QIDGIEDIGL TTNGLLLKKH GQKLYDAGLR  
 RINVS LDAID DTLFQSINNR NIKATTILEQ IDYATISGLN VKVNVVIQKG INDDQIIPML  
 EYFKDKHIEI RFIEFMDVGN DNGWDFSKVV TKDEMLTMIE QHFEIDPVEP KYFGEVAKYY  
 RHKDN GVQFG LITSVSQSFC STCTRARLSS DGKFGCLFA TVDGFNVKAF IRSGVTDEEL  
 KEQFKALWQI RDDRYSDERT AQTVANRQRK KINMNYIGG

> RXA01603 (1-621, translated) 207 residues

VSDAGKKDSS KVEIGLTGRP LRELPEPSPL EKHGPATIIA MANQKGGVGK TTSTINLGAC  
 LAEAGRKVLL VDLDPQGALT AGLGIHYDDV DITVYDLMVD NNSTIDQAIH HTGLPDLDVV  
 PANIDL SAAE IQLVNEVGRE QTLARALRPV MKDYDFIILD CQPSLGLLTV NALACAHGVI  
 IPMECEYFSL RGLALLTDTV EKVADRL

> RXA01607 (1-630, translated) 210 residues

VIRILLADDH PVVRAGLASL LVSEDDFEIV DMVGTPDDAV ARAAEGGVDV VLMDLRFGDQ  
 PGIEVAGGVE ATRRIRALDN PPQVLVVTNY STDGDVVGAV SAGAVGYLLK DSSPEDLIAG  
 VRDAARGESV LSKQVASKIM GRMNNPMTAL SAREIEVLSL VAQQQSNREI GKKLFLTEAT  
 VKSHMGHVFN KLDVTSRTAA VAEARQRGII

> RXA01608 (1-1839, translated) 613 residues

MALCMTVAFA GGS LTACTPR PDTADPIAE FLQAWASQDF DTIADITDQA DLATEMLSTS  
 FDGLQADSVE LTLDSDSRD TIATANFSVV WKLPDRDREVS YDSSMTLTKM RNEWTVRWEP  
 SLVHPKLGAN QHLELRAIEA QRANVISSDG APVLAPGSIY RVLVDPSAGD ADVVVKRVAD  
 YLNEAHATDE NVNTLDVEDI MSNLGDSTYS LTTVDANLGA RMEQDLGIP GLTFNEEASM

VATDPGFAPD IVSRVARIVE DELEGSNGWR ASIVTSNGAV IDDIAYDAPE LAPSVRISLD  
 HNVQRAAEAA VDLRAEMKAM MVVMRPSTGE ILAVAQTDEA DKDGDVALMG QYPPGSTFKI  
 ITAAAGLAHE GLTPDSIVPC PGTMNIIYGRI VTNYNFSFSLG NTSLLDDAFAN SCNTTFADIF  
 HHLEPGQLKN VAKQFGLGID YQIPGLDTMT GSVPEGDIVL DRTESGYGQG LDLASPFGMA  
 LVASTAATGS VPTPTLISGH ETVASEEVLA LDPEVLANVQ RMMKSVVNDG TARGMRQTGG  
 QIYAKTGEAE INEGSHAWFT GYREDDIAFA TLVVLGGGSE AAAAVTDQFF VKLDEL RAGG  
 EVAVSEAEQ PVG

> RXA01609 (1-873, translated) 291 residues  
 MSKMRAPLVP GIPTPIREVP AHIERPEYVW KDEVQEAIGE PFVQAPEVIE KMRETSRIAA  
 NSLKIAGEAV KPGVTTDELD RIVHEYTCDM GAYPSDLGYR GFTKSSCISL NEIVCHGIPD  
 STVIEEGDIV NIDVTAFKHG VHGCNATFL AGDVSEEHRL LVERTEEAMM RSIRAAKPGR  
 EINVIGRVIE SYAKRFGYNV VRDFTGHGIG PTFHNGLVVL HYDNTQYRDL LVPGMTLTIE  
 PMINLGSLDY EIWEDDWTVQ NVDRKFSAQF EHTIVITEDG NEILTLPDD S V

> RXA01620 (1-948, translated) 316 residues  
 MQSIRTTFRS LRSRAVIVGT VLALGIAGCS TASDEATSTS DDVAVGGRLF STADSATAAL  
 GSDAEPGQFP RTVVHSRGET TLEQQPQVRV VLDSGEIDQV LSLGVTPVGI ASPKDASSQP  
 AYLENQLADV QTVGTTSELN FEAIAALKPD LILGSKLRVD ESYDQLSQIA PTVLSIRPGF  
 PWKENFLLTA DALGLEKAV EVLNEYQTHV DAVRETIDGS PEISLVRFPMP GRTRLYGNLS  
 FIGAILKDLG LSRPEIQNID DLAVEISPEN ITDANGDWIF YSTYKKEPAT EQDNILSNEL  
 WHNLP RRPRR SCPGGQ

> RXA01640 (1-3318, translated) 1106 residues  
 MFAPPEGDDT DEVRRTYLRH LGALRAKATD HAAMQRRHEW HRHPDPATLW STLGTRRMWE  
 RTQDDQDCLE IRFGLGVTRL DPAINVSDSG APEDLDPVCA VSLRHTIRDV GSVQSMFVSV  
 QLQAFRFIGL NGAGAHDLAR ALVVQLLYHH GPEVVGKAI GESGWEWLKW VPHTRDPEKA  
 AFRILLVDSV LTNGTESFID DPQWTTIINV GAQTSTALGQ LAEDEGLLLH VDKRLHVATA  
 HGAEELGTPD AVSAELAEVF GRRLTAFRRT TTAAHAASSGE LLSLLGIDDV EHLTPETLWM  
 NKRTQPKTRL AVPLGLNASG RPMVLDLKE AHGGMGPHGL CIGATGSGKS ELLRTLVLGL  
 TITHSPEELN LVLVDFKGA TFLGFELPH TSAVITNLEE EPVLVERMHD AISGEMNRRQ  
 EALRQAGGCA NVDEYNQRDG VKMPALLIE SDEFSELLGQ HPDFADLFVA VGRGLRSLHI  
 HLLLASQRLE EGRLRGLDSH LSYRIGLKT F SASESRQVLG ITDAYQLPSQ PGAGFLKSDV  
 DTVTRFQASY VSGPIMRRHH LAPTQSRVRL FTSWEEPKEE VIVEQSTETL IDAVVARAIS  
 AAKLRGLSAH RIWLPPLPAE VSIGALADDV GELSAVIGMI DRPYQQRQDP LLIDFSLTGG  
 SGHWAICGGP QTGKSTALRS IVISMAATHS TENIRFYVLD LSGTSLENLS RLPHVAGVAG  
 RKDPEKVRRV VDEVGRGLNH PEQRHTFLIV DGWHTITQEF DELFADFVDI AANGLASRVH  
 LVLSTQRWSS IRPAVRDLVT GRIELKLGEA MDSVIDRKAQ LRIPSKPGRG LNLDEKHEILI  
 AHASGQDIAQ VCVMDAGQGW QQVPQLSVLP AHILLHELEL SATPGIPIAR GGAELSTLTW  
 DPESRRHLLA FGSQCGKSS LIRTIVTGLT IVGREKARLV FFDLRRTHLG LVPEDMLAAY  
 CATSTAVHNT IKDMVATLSA RLPGPDITAG ELRDRSWWQG PDIYLVIDDY DLLPAGTLHP  
 LREIIPHARD VGLHIVLTRK AGGASRALYD PVMSEIKDQS PHVVLFADADR DEGAILGIKP  
 TAQPPGRATM SIRGENIGVA QMAPHR

> RXA01653 (1-939, translated) 313 residues  
 GSDLQASRGL LEDDAVQNN TSVFTDSSK VHAINHHGKY FDVPGIAITE PSVQRTPIY  
 QAGASPRGLK FAGENAEAVF INSSTVEAIT KTVAKIRAAA VAAGRDPHAV KIFAMQTIIT  
 GETEADAQAK LEEYSRYIDP VGGLTLMMSGW TGADLSQYDL DEPITNIESN AIQSTAATIS  
 NGTGEAWTV RKLGEATGIG GFGPVLVSGS ANVAAELARI QDLSDVDGFN LAYAITPGTF  
 EDVDFVVP LQKLSRYKTE YAPGSLRNKL LGKGDRLDDT HRGASYRLGA RNSTATIDLS  
 SISAQLVSQG AHS

> RXA01654 (1-996, translated) 332 residues  
 MSPSANAAEA PASEWVNTTA IVDQANAQLS QFGVSLDRSA AELFDDQANS QIDAALSPYA  
 DKVPTSGGQV VEQSLQVVEQ EVQKALPNYE IRTDLQSQVM GATLGEVLHR VPGSWFDAPA  
 VPEESRIVEE QGKSLYGPGT PIYLNNGNSMC TLAVTGTAD GRKIGITAGH CGKSGDAVRS  
 ADSFWVGDTG TVVYNAPNAD YSVIEFGSNA ELSNTYNGVT ANAVGGGVN GQEVCKNGVA  
 TGYTCGLVWT ADERMTMSQV CAGRGDGAP LIADGRVVGL VSGGVIPDYN LACATPLQGP  
 FFMPTLSVNM DTVLTDLDSQ DLPGRGFQPT AG

> RXA01664 (1-822, translated) 274 residues

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MTVLISPSTL AESIHAGKKQ TVLAAFWAPI EGAGRTVFCS EHIPTSIFCD PALELSGVPS
SEDGRNPLPP LNVLARSFRT WGLNTDREIV FYDQGRGLFA ARAWWILRWA GMPNVRILDG
GFQKWEDHEL GHAGGPGNFP HFCNVRPNPG QLSVATIEDV KAHQGILIDS RDEQRFAGRS
EKLDLKGAGHI PGAININAKS LLEDDFTFKS PEEIRQIFAD KGVTSGENVI VYSGSGNHSS
QLLAGMEHAG LTGASHYFAG WSQWSANPEN PIEA
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> RXA01668 (1-1716, translated) 572 residues
MSSFNPTTKT NEAMQAALQQ ASSAGNPDIR PAHLLAAILE QTDGVAAPVL MATGVDPKEI
LAEAKKLVAS YPKASGANMA NPNFNRDALN AFTAAQELAG ELGDEYVSTE VLLAGIARGK
SDAADLLTNK GATYDAIKEA FPSVRGSQRV TTQDPEGQFQ ALEKYSTDLT KLAREGKIDP
VIGRDQEIRR VVQVLSRRTK NNPVLIGEPG VGKTAIVEGL ARRIVAGDVP ESLKGKTLIS
LDLGS MVAGA KYRGEFEERL KAVLDEIKGA NGEVVTFFIDE LHTIVGAGAS GESAMDAGNM
IKPLLARGEL RLVGATTLNE YRKYIEKDAE LERRFQQVYV GEPTVEDAIG ILRGLKERYE
VHHGVRIQDS ALVAAAELSN RYITSRFLPD KAIDLVDDEA SRLRMEIDSS PQEIDELERI
VRRLEIEEMA LSKESSDAASK ERLEKLRSEL ADEREKLSSEL KARWQNEKTA IDDVREMKEE
LEALRSESDI AKRDGNYCRV AKLRYGRIPE LEKQIEDAES KVEVNENAML TEEVTPDTIA
DVVSAWTGIP AGKMMQGETE KLLNMERVLG NP
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> RXA01691 (1-567, translated) 189 residues
MASQQIRYPF SAVVGQDELRL LALILTAISP RIGGVVIRGE KGTAKTITTVR AFAGLLGDAP
LVNPLPLGSTE DRVVGSLNME TVLTTGRAEY QPGLLAQADG GVLYVDEVNL LADHLVDALL
DAAASGRVSI ERDGISHSSP ANFVLVGTMN PEEGELRPQL LDRFGLAVDV AASTNPEVRV
EIIRRLDF
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> RXA01728 (1-975, translated) 325 residues
MADAVEREVF GYPDATGLN DALTGIFYERR YGFGPNPESV FAIPDVVRGL KLAIEHFTKP
GSIIIVPLPA YPPFIELPKV TGRQAIYIDA HEYDLKEIEK AFADGAGSL LFCNPHNPLGT
VFSEYIREL TDIAAKYDAR IIVDEIHAPL VYEGTHVVA GVSENAANTC ITITATSKAW
NTAGLKCAQI FFSNEADVKA WKNLS DITRD GVSILGLIAA ETVYNEGEEF LDESIQILKD
NRDFAAAELE KLGKVKYAPD STYLMWL DFA GTKIEEAPSK ILREEGKVML NDGAAGFGGT
TCARLNFACS RETLEEGLRR IASVL
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> RXA01795 (1-435, translated) 145 residues
VLIVGIRRD T GFDFKHPAPT HGPRGDMPYK TAGEALKGVK DVPTNNNHMK IMPRTVEVLK
RIPEGENFTA IPKDDPYVVK GMISHVYRRL HRDEPSKTLI AGGGGGTGWY HYEKNRALTN
RERARIQSFP DDFEFLGSNT QVRRQ
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> RXA01802 (1-831, translated) 277 residues
MGDQDIIGKE SKQMDFRLVA TDMDGTLLNT HHEVPEKFWD ILEQMRAKGI AFAPASGRQL
ATLQKQFGHA GEPISYIAEN GTVVVHDGEI ISLTITDSIT VHSIIDAVRA SDIDMGVVVC
RPERAYVERN DEAFRAEGLK YYVSIEEVQD LHEAVNNEVI KVAIFTFQDA EKDCAPIIRA
ASPNANVVVS GQHVVDMVMDP SANKGQALAA LRDALGLEES QTLVFGDYLN DTELIKAAGK
SYAMSNAPHD ILELADEIAP SNIEEGVIVV LEKLLNG
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> RXA01828 (1-1422, translated) 474 residues
VNRSIRITSL FSLLLILVLV ANLTIQAFR DDDLAQNPLN ARGFLEAKST PRGQISTGGQ
VLAESSQDDQ GFYQRSYITN PTAYAPVVG Y LSDVYGAAGL ELGYNSILNG SDSSLFTSQW
LDVISGSPTH GANIELTLDP NAQQTAYEQL SQSGYEGAVV ALRPSTGEVL AMASSPSYDP
NQIVDPATAE DAWAEYTSTE GAPLLNHATQ ESLPPGSIFK IITTAALLEN GYSADSTVTA
EAAVTLPGTN TTLTNYGGQT CAGGGTTTLL TAFQLSCNTA FVETGIDVGA DALRASAEDE
GVGQTYSLGL DNVPGGLGEI PDDAALGQSS IGQRDVQMN V LQAAVMAGTV SNGGVRMEPY
LVSRTVGTDL SELSTHKPKS VGGVEPEIAE QLKTLMEASE RNTSGYTGII IASKTGTAEH
GDENTPPHTW YVAFNNDIAV AVLKDG GGF GTSATGGQVA APIGRAVLQA AGGF
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> RXA01829 (1-1323, translated) 441 residues
MNTLERLKL RTEMWLLILA TLVVSIMFIS LELAMGNELG THILMLMGGY IGIFIVAHLA
MAWVAPFADQ IMLPVVAVLN GIGLVMYIRL DEATGYSTVN SQLMWTVVGV TLMVAVLLLL
RDYKSLSRYS YLLGVVGIVL LALPLVWPQ GGVVEARIWIW LGPFSIQPGE FSKILLLLFF
AQLLATKRAL FTVAGYRFLG MDFPRLRDLA PSLVWVALAI LIMAGANDFG PALLLFTTVL
AMVYLATGRG SWLLIGAVLV AVGAFTVYQV SSKIQERVQN FVDPVAHYDT TGYQLSQSLF
GMSWGGITGT GIGQGYPNMI PVVHSDFILA AIGEELGLIG LAIIIVLFGV FVTRGMRTAT
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LARDSYGKLV ASGLSMTIMI QIFVVVAGIS SLMPMTGLTT PFMSQGGSSL MANYILMAII  
LRISDSARRP VMSKQASEVA A

> RXA01838 (1-819, translated) 273 residues  
QHLSGGRVDL MMGRGNTGPV YPWFGKDIHQ GIPLAIENYH LLRRLWREDV VNWQGKFRTPT  
LQGYTSTPAP LDGVAPFVWH GSIRSTEIAE QAAFYGDGFF HNNIFWNKEH TAQMVNLYRQ  
RFEHYHGQQA DQAIIVGLGGQ VFIGDSEEEA KKTFRPYFDN APVYGHGPSL EDFSRLTPLT  
VGTAEQVIER TMEFADWVG D YQRQLFLIDH AGLPLEMVLD QIERLGHDVV PEVRRRMEER  
RPDHVPSNPP THQSLKANRN SPYFQINPGQ PTE

> RXA01848 (1-744, translated) 248 residues  
MGEEDSTPGR RSKAYSROGA DVRPMKGGHG INLVGTLMAA TERGANIVEG VVDFRPTDLR  
GSLRRGREAN LIVFVVDTS G SMAARSRVRA VTGTITSM LN DAYQRRDKVA VIAVNGNKPT  
LVLNPTNSVE QAQOKLKDMP MGGRTPLAEG LLMAKDLMAR ELRKEPGRRA ILMVMTDGQD  
TSDAGEAGIA TAAETVVKS R LSGNVVIDCE GRLKVRKERA GVLAEMLG G CVRLRDLNSE  
HIKMVINA

> RXA01849 (1-450, translated) 150 residues  
LPGVELPD LI LSQIAWLCAR IEVDGMRADL VITRTALAH A AWAGRTVVTE EDVEIAARLA  
LPHRRRRNPF DAPEMEERKL QETLQEARDF FKNEDKGP A AKITDEETGA EAFDTDTNPT  
EEDGLQGT AQ AKAQTTGKVG TAGSGDPFRS

> RXA01868 (1-1611, translated) 537 residues  
VEKDSSSNES VAYVIQSGLG LPDEAYYREE AHAETLAAYK EHVERMLGYL DNSRLFGLSA  
ASAAARIVAL ETEIAAGHWD VVKTRDAVAT YNPTEL GALP PKVRTLLSSA GLPDQRLVSM  
MPSYLDHLNG LLVDDRLPDW QLWATWHILR SRAGLLTEEI SQANFDFYGT KLSGATEQKD  
RWKRAVGLAE RMVGEEIGQR FVERHF PASS KEHMLELVDY LVAAYRDRIS NLEWMT PATR  
ERALEKLGKF NAKIGYPDKW RSYEGLEFGS DLVDNSRKGS AFLHDYELGK IGKPADRDEW  
VTTPTQTVNAF YNPVVNDITF PAAILRAPFF DPEAEAAENF GAIGAVIGHE IGHGFDDQGS  
QYDGDGNLNS WWTDEDRSAF EQLTSRLVTQ FSGLVPAVLT SEGIDTDGVN GEFTLGENIG  
DLGGLGIAVV AYEKYLADRG QTFETSPVQK FEAEGAE EGL AEQEFNGLQR LFLSWARVWR  
TKIRPQMAVQ YLAIDPHSPA EFR CNVIAGN VAEFYEA F DV PEDAPVYIKP EERLAIW

> RXA01869 (1-303, translated) 101 residues  
MKDLYRFVNG LWLDTHIIPD DRAVDGTFHK LRDDAEEDVH EIVKEDTGRA GTLYASFMDT  
DAINAAGVAP LDADLNRLSV ANSSFSQLLS ANWTVKALAR Q

> RXA01885 (1-801, translated) 267 residues  
MTTKPIIPES THSAERAGGH WILARLGKKV LRPGGRETTO FLLENLSLTG ATVVEFAPGL  
GVTARDILGK GPARYIGVDS DADACANVRA ILPAGPHEVR NTNATDTGLE SDSFDV VIGE  
AMLTMQTDKH KLELMREAA R ILKPGGLYGI HELSLVPD NV STAVKEDIAK ALARSIKVNA  
RPITVPEWAA LAREAGFDVI NIRQADMALL SLKRNLKDEG LKGVFTIVRN VISQPD LRKR  
VLGMRKTFTE HKDHLGAVGI ILQKRAQ

> RXA01914 (1-426, translated) 142 residues  
MAKNAYSTTA PTKVSKDATL PVRGTVAELK LEKKLPKKID AIIVAIFEGE DSIELAGGEI  
LDFIFSTEQQ ADILTQLEAV GAKATANSIT RVPGTDVAPV IAVGLGKADL LDDETLRRAS  
GTAARSLGGF ENVATTIGDL GL

> RXA01918 (1-414, translated) 138 residues  
MTPDLAAFLD KLYAEGQEF D AEQPDRLDRR RNLESESAAL LRSLIYGISP KSVLELGTSN  
GYSTIWMADV VNLTTVDNDP ERS LDAAANL RAAGVEEKVQ RIVADGATVL ADSADEQWDF  
IFLDAEQSLY VNWWPDLQ

> RXA01932 (1-897, translated) 299 residues  
MLLHPDAQFY IDTLPTLSAE EQVSFGKDAP VSEADATHVA TDQDIAGVPV R VYTPLSGAG  
DLPLCLVYFHG GGWSGGTLNM IDATVHSLV V GLPIIAISVD YRLAPAHFPF AAIDDAFAVV  
SAVL DGVSG L SIDTSRVAIG GDSAGGNIAA VTAQQLRERA VGSTPVLAHQ VLIFPVT DVS  
TTSTPSYLTF GKDCYLTKDA MERYIEQYAD GHDRTPRLS PLLASDLSDL PPTTIVYGEC  
DVLAEHVRAY GQALLEAGNS VTMTEFKGQI HAFINLGGIS SDARAARRLI RAELEAALC

> RXA01933 (1-603, translated) 201 residues  
MSKTRTFLFD LYGVLIKEHG AAQFERVARA VGEPSKNDKL HEVYESLRDL LDAGRVSEVN  
YWNQIKLLVG LEFLDIQEV I AADYRGLYER DQDMVDYVLS LKAKGHRIGI LSNIP EGLAK  
LLKEHNSEWL DQLDAVTLSC DIGAAKPEPK SFHVALEALG EKAEDVTFID DRVRNIEAAR  
EEGLSTIHFT GLDSLKESIQ E

> RXA01934 (1-558, translated) 186 residues  
MTPQPLILPF GDKVPRIHES AWIAPNATII GDVEIGPDAS IFYGVVLRGD VNKITIGART  
NVQDNCVLHV DGDAPCTLGD DVTVGHMALV HGATVGNGTL VGMKSALLSG SHVGAGALIA  
AGAVVLEGHE IPAKALAAGV PAKVRRLDD AQSQSFIPHA GRYVETSKAQ ASIAEALSLO  
EVRVRE

> RXA01967 (1-1143, translated) 381 residues  
MRIQSPMEIS WSEAVREGGE HSARRCGDMA VSALAKPNPI IDDDPEGNPD VCMYTWIVEC  
PGATAVLLWI NGVFDHERIE ESEMTRLEGS DLWILSLRMP SDWRASYTVN AWSGDGVAPW  
REAGDRMHIR KAAMSGGRP D SRAMGHIMDS SLVEGPDALP DCWVAASTSV KVVEETVAGE  
HFWFYEAPVK APLLVLFDGQ HWNNSMNLPA QVDAAIAIGL LPPVSLLMID SVNTERRWDS  
VGVPGGQVDV LIDALLPHVR ETYNVSARGE DTIVTGASFG GLASLWALAL SDGEVGHAI A  
QSPSLWRFNV ADALSAAEQW SSIHLQAGKY EGEMLRLSHQ LAEDLSGDIR EVRVRGVHGG  
HDWAWVRVHM LTELTRLLKT L

> RXA01971 (1-831, translated) 277 residues  
MSKKKPRPIP VPAQFIPGLI DAHTHLASCG GDLAGLVERA KEAGVEKLCT VGDGLAEAE L  
ALEAAQQFGN VFAACAIHPT KADQLDGAAR ARLTQMAADP NCVAIGETGL DSYWIKHDPE  
DTAALDVQEE ALRWHIDLAI SADKPLMIHN READADLMRV LADAPPPKDT ILHCFSSPLD  
VAKEALDRGY VLSFAGNVTF KRNEELREAA RIAPISQILI ETDAPYMTPE PFRGSRNEPS  
LIGHTALCIA EVRGMAVEDV AAALNENFDR VYGVTNL

> RXA01993 (1-366, translated) 122 residues  
AGTGAQDGDR SQGVNGYVMN TITPDSDRFS HYFWAFMRNY RLESQTITTQ LRDGVSGVFK  
EDEDMLTAQQ DAIDANTDYE FYSLNIDAGG MWVRRILEE A LSKEGRDLIP TTFPRATPKP  
EA

> RXA01994 (1-975, translated) 325 residues  
MNSQWQDAHV VSSEIIAADI RRIELSPKFA IPVKPGEHLK IMVPLKTGQE KRSYSIVDAR  
HDGSTLALSV LKTRNSRGGS EFMHTLRAGD TVTVSRPSQD FPLRVGAPEY VLVAGGIGIT  
AIRSMASLLK KLGANYRIHF AARSLDAMAY KDELVAEHGD KLHLHLDSEG TTIDVPALIE  
TLNPHTELYM CGPIRLMDAI RRAWNTRGLD PTNLRFETFG NSGWFSP EVF HIQVPELGLH  
ATVNKDESML EALQKAGANM MFDCKRGECG LCQVRVLEVD GQVDHRDVFF SDRQKESDAK  
ACACVSRVVS SPSSSPTSTI TVALS

> RXA01997 (1-390, translated) 130 residues  
MTINEKIASA FNNQVTAELE ASMVYLQLSY VLDDLGLTGM RDWMKAQSKE ELEHAQKFAQ  
HLLDRDYTPQ IGDIAAPPKLD VTS AIEAFEA SLAHEQKISG LIRELAAIQD AEKDYDSRAL  
IDWFLNEQIE

> RXA02000 (1-504, translated) 168 residues  
MKVTQSTFLK SVAAFTVAAL TLTISSCSSG EDTSASSTDT ENSSTQAAA S PPLAPCELPA  
DASAE EEEVEG THTGEDISVA PEIGTGYREG MTPVQTQGYA VATANPIASE AACAVLREGG  
TAADALVTAQ FVLGLTEPQS SGLGGGGYIL YYDAEANA VT AIDGRETA

> RXA02010 (1-447, translated) 149 residues  
MVFTLADSVS QVALGPSWLD PMELLSGSGP FGSFILPAML AIVFIESGLL FPLLPGDSL L  
FTGGLLANQA DPFAPLWLVL ILCPIAAILG DQVGWIGHK FHPRLVNRPD GRIFKQEYLK  
QTEDFFEKHG PVTIILCRFV PIVRTYAPL

> RXA02012 (1-669, translated) 223 residues  
FTMTLSERKL TTTAKILPHP LNAWYVAWD YEVTSKKPM A RTIANKPLAL YRTKDGRAVA  
LADACWHRLA PLSKGKLVGT DGIQCPYHGL EYNSAGRCMK MPAQETLNPS AAVNSYPVVE  
AHRFVWVWL G DPTLADPTQV PDMHQMSHPE WAGDGRTISA DCNYQLVLDN LMDLTHQEFV  
HSSSIGQDEL SESEFVVVTH EDSVTVTRWM HDIDAPPFWQ KNM

> RXA02016 (1-777, translated) 259 residues  
 MSNFETFLWV AYPWLCIAAY IIGISWRWRA DQFGWTTTHSS QIYESKLLRI ASPLFWHGMV  
 FVVIGHLMGL AIPKSWTQAV GISDAAYHLI ATIPGTIAGI AAVLGLIGLI IRRVINKTVF  
 LSTSRSDKVM YVLLGAAILS GFIA TVSTQV FGGAHGYDYR ETISPWVRQL LIFNAQPELM  
 ADVPWEFKVH IVAGFTLIAL WPFTRLVHAF SAPVGIVTRP YVVYRTRDIT SEPARQNVAV  
 EPIRSVKNQL DNDSKWHGA

> RXA02017 (1-684, translated) 228 residues  
 MRTHTGKIPD HFVPRISMTE EQRRVVFMLN SLLLDYPEEG FVDKLNAVEA QLDVLPLPVA  
 AHVVEFLDAA RVAGLRAMQE AYVETFDQRR RCSLFLTYIA VGDTRQRGTA ILTRFQTLQQ  
 LGFESERDEL PDHLCVVLEA AALADSSSLFD AATQVLSAHR DGIEVLRAAL DNLDSPYRYL  
 IMSLCQALPE IDEETANSYM ELIRSGPPAE MVGIGTPLPF PTSQPDH

> RXA02018 (1-1050, translated) 350 residues  
 RICEHCLNPT CVSSCPGAM YKRAEDGIVL VDQDQCRGWR MCVSGCPYKK VYFNHKSCKA  
 EKCTLCYPRL EVGQPTVCSE TCVGRLRYLG VLLYDADRVA EVAATPDEKD LFEAQKTLFL  
 DPHDPQVIAD AQRNGIPHSW LEAAQNSPIY DLIFKYEVAL PLHPEYRTL P MVWYIPPLSP  
 IVDEVTASGN DGEDHKILLT ALSTMRIPL YLAGLFTAGD TRPVEKSLRR LAAMRSYMRD  
 ISLGREPQEE IAEAVGMTGK VVQEMYRILA IAKYDDRYVI PTASPETPRG ISSLDPFQDV  
 DPARATEQLN IGLGEGAPEA CGTGAPSGKV SLTSWNVGER PAAMFPPRKD

> RXA02048 (1-1374, translated) 458 residues  
 MRRLRSTPVP GTRDSYTGID FNLGFHIRRY ELDLTYRVAP NLLMGATATLH MDNYRALDAL  
 TLDLGGSLRV EKVTAKGTAG THIQVARFRH AGRKLRITFR NQIPVDQEF S LTIRYRGNPR  
 PLRSEWGMIG WEELDNGALV AAQPNGAPSW FPCDDTPDEK ALFDVHFHTD NGYAAIITGD  
 LISKHVSGSM TTWHYQSREP MATYLA AVHV GEYDTVSLGV SESGVVVEAY VPGVDAALRA  
 RILEDFAKQV DMLDAYEKL F GPYPFRSYRV VITEDELEIP LEAQGLSSFG ANHATGEGTW  
 ERLIAHELSH QWFGNSLGLA QWNDIWLNEG FACYA EWLWF EAAGVKSAE SALEFYRGLE  
 ALPKDILLAN PGAKDMFDDR VYKRGALT VH ALRELLGDDA FFKAVRSYVA EGRHGLVEPR  
 DLKRHLAYVS TDHAALDAVW QSWLRDLELP EFPSSGGLD

> RXA02052 (1-792, translated) 264 residues  
 MGTTEIPETP TRVVVIDSPH LDALLALGIT PVGATESGSE NGFPAYLADE LKDTESVGLT  
 SEPNEKIAA LDPDLIIGAK VRHEAIYDQL SDIAPTVMSE GSGTNWNEQA EITAAAVNKS  
 DEMDKLISDL DTRATELGEE IGADGQTASM VRFRTDNFRL YGPETFSGSV LEQVGFDLGE  
 RDWNEYSMME LSSENFQID GD LIFYTIPG SPEATTYPKI SELWVDSPAV RQGRTYEFED  
 ETWMVGIGVL GANEILDDLE ETLS

> RXA02064 (1-639, translated) 213 residues  
 VSNAFEYLRT YVESTTETDA AVARAREDAE EFGLPAPDEM TGQLLTTLAA TTNGNGSTGA  
 IAITPAAGLV GLYILNGLAD NTTLT CIDPE SEHQ RQAKAL FREAGYSPSR VRFLLSRPLD  
 VMSRLANDSY QLVFGQVSPM DLKALVDAAW PLLRRGGALV LADALLDGTI ADQTRKDRDT  
 QAARDADEYI RSIEGAHVAR LPLGAGLTVV TKA

> RXA02083 (1-1410, translated) 470 residues  
 MEMVMKNKRV AIIGAGPSGI AQLRAFESAE KQGHEIPELV CFEKQDTWGG QWNYSWRTGT  
 DSYGEPVHSS MYRNLWSNGP KEVLEFAEYS FDEHFGKPIS SYPPREVLWD YIAGRAKKS N  
 VEKYIKFAHV VRWVSFEAT KLFTVTVENL RTGETSSDTY DNVIVGAGHF SFPNVPHFDG  
 VETFPQIMH AHEFRGA EAV ADKDILLIGA SYSAEDIGTQ AYKMGARSVT FSYRSNPMGY  
 EWPEEMTELP LVERFDGSEV HFVNGEKRKV DIVVFCTGYL HHYPFMPSEL TLSSPNNLYP  
 DTLYRGVVSE ANNQLFWLGA QDQWLT FNMF DAQAWYVRDV ILGRVALPSK EAQRNHMDKW  
 LSRFEGLKSE NDQIDFQCDY VEDLIDQTDY PSFDLKEVAN ILKGWVKSKE EDILNYRDTY  
 YTSVMTGTTS VEHTTPWMIE LDDSLERYLS EPQEDEARQV YRGKKVRDKA

> RXA02092 (1-1638, translated) 546 residues  
 MANSAAGSVL ADEMVPPTST GFVKGVKGP LKTRGIPYG RNTGGKYRFR APRPAKKWDG  
 VRDCSMFGEV ASQPTYSWTD KIRGSEDCLN LDVVRPDSEE KLPVVVYLHG GSFIMGSSSE  
 KALRGYNLVT MNMNVVYSVN FRLGALGYLD LRSVGEDCVA NPALHDQLLA LQWVSRNIKA  
 FGGDPDNVT L MGESAGAAV VALMCVPAAG GLFHRAIAQS APVISVHSST QAKFWARELI  
 YRMALPRETT LDEL RQESAD DLVRAGQSM WRS GELLQLN SCYGP TVDGS LLPEHPLTMF



EQGRQHRI PF MIGTNNGETS FSKAFYLRSS ARRRSALRML SVYDPHNAER VVSAYGGGEA  
 RTDFSELLAD ALFWAPSVRL AQSHASQDED TWMYRFDYAP QSMRKLGLGA IHSFELNAVF  
 GDHESSRSMN LAKIAGGMDH LDKVTELQVE HWKQFIYFGR PGEEWKAYRG RSDTEPGRAT  
 FVIDINSRIA WDPKQDKRTA WENYDMLEWG TGRPDLANEL DFIEPEETEE EQQLKWLSLM  
 QFFGSR

> RXA02098 (1-1746, translated) 582 residues

MDATFWIIGL VVLVVLAI III VLIVGNQRGK SKTVSF EKPE ENKKELTQQE KSGNYQAQGG  
 FNFAPAKQTE EPVLREGQDL GAPKAETTP I VPPVVI PPAA PEEKKAPEQS TETFAAQKPA  
 EEAPATPEPE TSDDVVEEPE VKEPEVKEVV AVEPEVETEE PAVVEEPAVA EEP AIVEEPA  
 VAE E PAVAE E PAVAE E PAVAE E PAVAE E PAVAE E PAVAE E PAVAE E PAVAE E  
 AAEAAQVAVE SAEAALEETP VPDVEPEPAA EPIDEIVPAA GRIGKLRGRL SRSQSVFGKS  
 VLGILSAGDL DEDAWEDIAE MLIKADLGAK I TARVVDEL R DKIAEHGVGS EAEARAMLRA  
 SLIDACRPDL DRSIKAMPYE GKPPVVLVVG VNGTGKTTTT GKLARVLVSM GHKVILGAAD  
 TFRAAADQDL ETWGRRVGAE TVRGAEGADP ASIAFDVAK GVERQADVVL VDTAGRLHTS  
 TGLMDQLGKV KRVVEKKAVV DEVLLVLDAT VGQNGMQQAR IFREVVDITG VVLT KLDGTA  
 KGGIVFQVQE ELGVPVKLVG LGEGADDLAP FEVEGFVDAL LG

> RXA02101 (1-1263, translated) 421 residues

MSRISELLNN HGVDLSWQEA AYQDFHEHPE LSGFESETAD RIQKYLERFD CEVIPNVGGY  
 GILAVFRNGS TDPGAPVALM RADFDGLPVK EITGVFFAST RMRPHDGANV HVMHACGHV  
 HVTALLGACA ILDERDAWE GTFIALFQPS EENSQGANKM VAGGLVDLIP RPDVCFGQHV  
 VPGAAGTVMS MPGGALAACD SIEIRIQGRS AHGSMPHNSI DPTYVAAMIV VRLQGIVGRE  
 VSPEDFAVIS VGT LQSGNTN NTIPASARLV LNCRFYNDKV KHKVYRAIER VVRGECLASG  
 IEEEPVIEYF AHGDLTNNTF VVFDTVRPVF DDVFGEDSID AYRWTASEDF PSIPKAFNSP  
 YLYWTIGVTP RDQWTEAVER DRVASDV PAN HMGDFLPDYA PTMSAATRAA AAALLTYLGT  
 N

> RXA02105 (1-291, translated) 97 residues

MVGITISTYIA FNGNTTEALK HWQEVFGGEL NLLTYGQLTL EGMPFDPPAD ALAHGVLTLD  
 NGGLISGSDS FEGEMLVKDT AYSMLYNAES VEDGRAR

> RXA02111 (1-1284, translated) 428 residues

MTTSITPSVN LALKNANSCN SELKDGPWFL DQPGMPDVYG PGASQNDPIP AHAPRQQVLP  
 EEYQRASDDE LHRRIREAKD TLGDKVVILG HFYQRDEVIQ HAD FVGDSFQ LARAAKTRPE  
 AEAIVFCGVH FMAETADLLS TDEQSVILPN LAAGCSMADM ADLDSVEDCW EQLTSIYGDD  
 TLIPVTYMNS SAALKGFVGE HGGIVCTSSN ARSVLEWAFE RGQRVLFPPD QHLGRNTAKA  
 MGIGIDQMPL WNPKNPLGGN TVSELENAKV LLWHGFCSVH KRFTVEQINK ARAEYPDVHV  
 IVHPESPMPV VDAADSSGST DFIVKAIQAA PAGSTFAIGT EINLVQRLAA QYPQHTIFCL  
 DPVICPCSTM YRIHPGYLAW ALEELVAGNV INQISVSESV AAPARVALER MLSVVPAPV  
 TPSSSKDA

> RXA02118 (1-342, translated) 114 residues

MSDQLAPCPE CSSEYTYENG GVLVCPMAH EWVEGEVAEE TATVIKDSVG NILNDGDSVS  
 IVKSLKVKGG GAIKIGTKVS GIRLLEEPVD GHDIDAKVPG FGQMLKSSV VKKA

> RXA02120 (1-762, translated) 254 residues

MSDLKSLATK FASDHESGKL LVLPTVWDTW SAGLVEEAGF SGLTIGSHPV ADATGSSDGE  
 NMNFADYMAV VKKITSAVSI PVSVDVESGY GLSPADLIAQ ILEAGAVGIN VEDVVHSEGG  
 RVREAQEHAD YIAAARQAAD VAGVDVING RTDAVKLGAD VFEDPMVEAI KRIKLMEQAG  
 ARSVYPVGLS TAEQVERLVD AVSVPVNITA HPVDGHGAGD LATLAGLGVR RVTFGLWQK  
 WLAATSAQQL KGWA

> RXA02126 (1-321, translated) 107 residues

MGQKV TAGRD ILGEFAPKSA ELNDDVLFQ VWSRESELSP RDRSIVIVTM LMASGVLDSA  
 FESHVQRAKD NGVTAE EIAE IITHVAFYAG WPKAWAAFRI AKDIYTK

> RXA02192 (1-522, translated) 174 residues

IPDIGFVQFQ TPPDETRNSV NAALEAGYRH IDTAAAYGNE REVGEAIAAS GIGRDEITIE  
 TKIWVTDYGF EETLHAFDKA TGKLGVDTL D ILILHQAVPS SFDRTIAAYK ALEKLLFDGA  
 VRAIGVSNFM PEHLDKLLE TSIVPALNQI ECHPYFQQRD VLARNEQLGI LTQA

> RXA02214 (1-609, translated) 203 residues  
MSPTVLPAATQ ADFPKIVDVL VEAFAANDPAF LRWIPQPDPG SAKLRALFEL QIEKQYAVAG  
NIDVARDSEG EIVGVALWDR PDGNHSAKDQ AAMLPRLVSI FGIIAAHVAV TDLSSARFHP  
KFPHWYLYTV ATSSSARGTD VGSALLNHGI ARAADEAIYL EATPTRAAQL YNRLGFVPLG  
YIPSDDDGTP ELAMWKPPAM PTV

> RXA02215 (1-867, translated) 289 residues  
AQELLVKLLP HSGNALRIGI TGVPVGKST FIEAFGLHLI EQGHKVAVVA IDPSSTKTRG  
SILGDKTRMS KLSNAENAFI RPSPSAGTLG GVAKATREAM VVFEAAGYDI IIVETVGVGQ  
SEVAVSHMVD IFTFLALSGA GDQLQGIKKG VLEMAELVAI NKADGPNEKP AKRAARDLAS  
ALRMVRSPE LWHPTITMS AVEGTGVDTF WHHVQNHHT MVEAGEFDRR RRDQQVGTW  
SMVHETIRMR LENDPGVQV SQDMERALRK GSTTPTLAAQ NILEAFDKA

> RXA02264 (1-120, translated) 40 residues  
MIPGEYILSS ESLTGNVGRE AKTIEIINTG DRPVQIGSHF

> RXA02265 (1-300, translated) 100 residues  
LHITPREQEK LMIVVAADLA RRRKDRGLKL NHPEAVALIT YELIEGARDG RTVADLMSWG  
STILTRDDVL EGIPEMIPDI QVEATFDDGT KLVTVHNPRI

> RXA02274 (1-1602, translated) 534 residues  
YAAIGEEVAF GGGKVIRDGM GQNGTLVRDV DIPDTVITNV IVLDYTGVIK ADVALRDGKI  
FRIGKAGNPN VMENVDIVIG VATDIIAGEG KILTAGGIDT HVHFLGTDQV NTALASGITT  
MIGGGTGPSQ ASMATTVTPG QWNTYNMLSA FEGMPMNFI LGKGHGSSKS PLAEQVRAGA  
IGLKIHDWG ATPSSINTAL EVADDMDIQV ALHSDTLNEA GFVEDTIEAI AGRVIHTFHT  
EGAGGGHAPD LIRVAALPNV LPASTNPTLP YTRNTVEEHL DMVMVAHHLN PDIPEDVAFA  
DSRIRAETIA AEDVLHDMGI FSITSSDSQA MGRVGETITR TWQVADHMKR TRGSLTGDAP  
YNDNNRLRRF IAKYTINPAI AHGVDYVVRV VEEGKFADLV LWDPKFFGVK PDLVIKGGML  
VNSLMGDSNG SIPTPQPRTL RNTWGAFGQA VSRSSITFLS QDAIDANVPD LLNLRKQIRG  
VRGVRNLTKR DMKLNAMPD IRVDPETYQV FVNGELITSK PAETVPMARR YFLF

> RXA02275 (1-471, translated) 157 residues  
MIITAITDNI YDEPEFVEGR DVIGVRFEDL VLDKRIQVA LPGGEELGLR LNHGHPILRE  
GDVLKADDKT VVFVEIIPD VLVITPSDIH QMGFVAHSLG NRHLPAQFSK PGELTEKAAM  
IVQYDHTVVS FLDEHGIEYQ RTELVPPIPF RSHGHTH

> RXA02276 (1-678, translated) 226 residues  
MDLDADFLLL HSDSALPTG AFAHSFGFET YMDAERITNA EEFQDWLKV LKVQLTSSDA  
LAMRMFYATP TVSELKRLDE RLFAGTPARE IREANARMGT RMAEIVAETY SVPLIVEYLE  
LIQHRELSGH PALALALATH SAGIDVDRAI HAHLTATVSS LIQNAVRGIP LGQMAGQVRM  
FAMREHIGAA VKRSANLDEI DFCSGDPGLD ISQMVHETQR ARLFMS

> RXA02277 (1-615, translated) 205 residues  
MGPIRIGVGG PVGAGKTQLV ERITRALIDE VSMAAITNDI YTIEDAKILA ANGVLPPEERI  
VGIETGGCPH TAIREDTSMN DAAIKDLVER FPDLELIFVE SGGDNLSATF SPELVDFSII  
IIDVAQGEKI PRKAGQGMKI SDLFIINKTD LAPYVGANLD VMVEDAKAFR KNKPFCLTNL  
RTDDGLDKVL EWIRHEVMMQ DLQEA

> RXA02278 (1-849, translated) 283 residues  
MTQTQPVGTL RLTIDDQGPQ GQSRVQFQH QGALRVIRPH YLDDSGQVCY TIIAIGGGYL  
GGDVYEQQFT IKDNAKALIT TQSATKIYRT PQGPATQHT E INVGENAVLE YLADQTIAYR  
EATYHQFTKV ALHPSATFVM SEQITPGWHP DGKHFAYDEM RLHTEITDST TGRLVLDDNL  
LLRPDSREGS FGWTEQYTHS GQMIVMGEV DKQLVAELNE QLAHPDVYG AVNFLSAPGT  
LLRGFIARTL SNRTEELINL HEHIASLLRG RWRGQEPVNL RKY

> RXA02316 (1-1014, translated) 338 residues  
MSTPTVDEIL ERAHVVS LPM RVKFRGVTT EALLIEGPAG WGEFAPFLEY DPQESASWLK  
SGIEAAWEGF PAPLRDRVEV NATIPAVPAD QVAEVLDRFP GCRTIKVKVA EPGQTLADDI  
ARVAAAAREAR PGAIIRVDAN CGWSVEQAVE AAQALAPLDY LEQPCATVEE LAEVRMTVQR  
RGLFVRVAAD ESIRKSDDPY RVADLRAADV AVVKVAPLGG VKRVLEVVOH LRARTMDITV

ASALDTVVGM NAGLAAVAAL PKLDDDDLID VPPAAAGLAT SQLFLEDVAT PHAITDGFME  
TRVIAPEMDR LETLAASKDR RDWWFERVRE SYPYLETI

> RXA02317 (1-612, translated) 204 residues  
MAHMRLLLTG FGHDRHDFV RGTVAIPDA TRLFADSPEA APFMETERNM LREHGLSIRE  
LPISTSTPEE VDRVLGEVDG VYVAGGETFD LMWLLRSTGN DEVLIKHVRA GLPYIGTSAG  
AVIAGPSIEP ISFLDSPDVA PNLSDYSGLG LCEHVVVPHA GGTIPQFPID VFAETVRTYG  
AEFPLVLLKD GQALLIDDHG VHLL

> RXA02334 (1-354, translated) 118 residues  
GVLDPWMSTA TQPSNTGVLR GEHIPGAINL DWSDAVLPNG NFRTRAELDK LYADLNPADD  
TVVYCQVGDR AAHTWFVLKY LLGFNNVRNY DGSWAEWGNM VRMPIETGEN TKNNVSVS

> RXA02351 (1-939, translated) 313 residues  
VEGSVEKLGL ISWWEELART AERGLDAVF LADGQAINPV GLENGPGWFL EPVTALTAMA  
RATNNIGLIS TISSTFWQPF HAARMIASLD HISGGRAGIN VVTSMTDAEA RNHGMDALPG  
HDVRYARAAE FIETITALWD SWPAESLVM D RAGKFADSSL IKSIDHDGEF FQVAGPLNIP  
SPPQGRPVLF QAGSSPQGRE IAAKYAEAIY SVAWDLEQAQ DYRSIDHARA TAQGREPMPV  
LPGLVTFVGT TVEEARAKQQ ALNALLPVKD SLNQLSFFVG QDCSTWDLDA PPPPLPPLEE  
FSGPKGRYET VLR

> RXA02410 (1-666, translated) 222 residues  
MDMGPGVLAA VQEIQDPADA HVIFSHLHTD HCADFASLMV WRRFHPTLAA KSRNLLFGPE  
DTPNRLGRLS SDEPDGVDDM SDTFAFDAWE ERKPELIDNF TVTPFRVHP IETVALRVEE  
HRTGASITYS GDSAYTEALI DAARNVDIFL CEATWGTS CD DKAPGMHMCQ QDAGRIAAAA  
GVKKLIITHV PPWIDAEATV AAAAEHFDPG IELARSGMVI EF

> RXA02411 (1-849, translated) 283 residues  
MATVTDFSGS MIERPVPAD APIGIFDSGV GGLTVARTII DQLPHESVIY IGDTANGPYG  
PLPIAKVREH AIRIADELVE RGCKMIVIA NTASAAFLRD ARERYSPVV EVILPAVRR  
VASTRNGKVG VIGTVGTINS GAYQDLFSAS PSIVVNAVAC PRFVDFVERG ITSGRQILNI  
AQDYLEPLQA EGVDTLVLCG THYPLLSGVI QLAMGDHVS L VSSAEETAKD VLRILSQDL  
LADPDMHPEP SYSFESTGDP EIFAQLSRRF LGPIVSQVRQ NEG

> RXA02448 (1-1089, translated) 363 residues  
VNNSLAFNHD TLPQKVMFGY GKSSAFLKQE VERRGSAKVM VIAGEREMSI AHKVASEIEV  
AIWHDEVVMH VPIEVAERAR AVATDNEIDL LVCVGGGSI GLAKAIAMTT ALPIVAIPTT  
YAGSEATNVW GLTEAARKTT GVDLKVLPET VIYDSELTMS LPVEMSVASG LNGLAHCIDS  
LWGNADPIN AVLAAEGIRA LNQGLPKIVA NPHSIEGRDE ALYGAYLAAV SFASAGSGLH  
HKICHTLGGT FNLPHAQTHA TVLPYVLA FN AGDAPEAERR AAAAFGTDTA LEGLQRLRLS  
VNAPKRLSDY GFEASGIAEA VDVTLKVPV NNPRPVTREN LSRLLEAALN GEDPAVLSAV  
LSN

> RXA02449 (1-903, translated) 301 residues  
MTTTTADHNI SAQQKAVEEN LVNRVLQSF ACENPRLKQL MESLVVHLHD FIRDVRLTED  
EWNIAIDFLT AVGHITDDKR QEFVLLSDTL GASMOTIAVN NEAYENSTEA TVFGPFLLDD  
APEVELGGDI AGGAQGQAAW IEGTVTDTEG NPVPNARIEV WECEDEDGLYD VQYADERMAG  
RAYMHTDANG DYRFWGLTPV PYPIDHDPV GNMLKAVGRS PVRCAHLHFM VTAPELRTL  
THIFVEGDPQ LEIGDSVFGV KDSLIIKKFEE QAPGTPTPDG RDLGDQTPWAR TRFDIVLAPG  
A

> RXA02470 (1-981, translated) 327 residues  
MFERFTDRAR RVIVLAQEEA RMLNHNHYIGT EHILLGLIHE GEGVAAKALE SMGISLDAVR  
QEVEEIIIGQ SQPTTGHIPT TPRAKKVL EL SLREGLQMGH KYIGTEFLLL GLIREGEGVA  
AQVLVKLGAD LPRVRQQVIQ LLSGYEGGQG GSPEGGQGAP TGGDAVGAGA APGGRPSSGS  
PGERSTSLVL DQFGRNLTQA AKDGKLDPVV GRDKIEIERIM QVLSRRTKNN PVLIGEPGVG  
KTAVVEGLAL DIVNGKVPET LKDKQVYSLD LGSLVAGSRY RGDFEERLKK VLKEINQRGD  
IILFIDEIHT LVGAGAARRR NRRCLPA

> RXA02471 (1-1833, translated) 611 residues  
VQHEGAIDAA SLLKPKLARG ELQTIGATTL DEYRKHIEKD AALERRFPV QVPEPSVDLT

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VEILKGLRDR YEAHHRVSIT DGALTAQAQL ADYINDRFL PDKAVDLIDE AGARMRIKRM
TAPSSLREVD ERIADVREK EAAIDAQDFE KAAGLRDKER KLGEERSEKE KQWRSGDLED
IAEVGEEQIA EVLANWTGIP VFKLTEAESS RLLNMEEELH KRIIGQDEAV KAVSRAIRRT
RAGLKDPKRP SGSFIFAGPS GVGKTELSKA LAGFLFGDDD SLIQIDMGEF HDRFTASRLF
GAPPGYVGYE EGGQLTEKVR RKPFSVVLFD EIEKAHKEIY NTLLQVLEDG RLTDGQGRIV
DFKNTVLIFT SNLGTADISK AVGLGFSGSS ETDSDAQYDR MKNKVHDELK KHFRPEFLNR
IDEIVVFHQL TKDQIVQMVD LLIGRVSNAL AEKDMSIELT EKAKDLLANR GFDPVLGARP
LRRTIQREIE DQMSEKILFG EIGAGEIVTV DVEGWDGESK DTDRAKFTFT PRPKPMPEGK
FSEISVEAAE AIQDVDSAAD GDVPETDSLS DIDLETLEKF EEDVENGTDI DQVSGDYYGT
DDQGGTAPSK E

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> RXA02477 (1-621, translated) 207 residues
MPLRNVDRTP PAVWEALLAG NERFISFNEF RPNQDAPRRR ELRNGQTPAA VVISCSDSRV
PVEIIFDVGL GDLFVVRTAG EILDQAVLAS IEYATESIGV PLVIVMGHES CGAVAATAAA
LEGGALPGGY QRVLVKQVAP SILEAKAEGE SSIKEFEEHH VVATVNQLLS RSPEIHQKVE
TGELGIIGLR YRLSDGRTEP VISKNVG

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> RXA02497 (1-927, translated) 309 residues
VRLGVLDVGS NTVHLVAVDA RPPGHPTPMS NWRTPRLRVE LLDDSGAISE KGINKLTSV
GEAADLAKTL GCAELMPFAT SAVRSATNSE AVLDHVEKET GVRLSILSGE DEAROTFLAV
RRWYGSWAGR ITNLDIGGGS LELSSGTDES PDLAFSLDLG AGRLTHNWFD TDPFARKKIN
LLRDIYDAEL AEPARQMRTL GPARLAVGTS KTFRTLARLT GAAPSSAGPH VTRTLTAPGL
RQLIAFISRM TAADRAELEG ISSDRSHQIV AGALVAEAM RALDIDKVEI CPWALREGVI
LTRIDKGLE

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> RXA02513 (1-732, translated) 244 residues
MLPIWMGLPF KKAGALSRRK AVFSALGADA LMGAALPTIP TAQAQTPTGY GFDTASISE
EPEFSTQQLA DGGTLGFDCY RIPSLGVAPN GNVLASWDGR PNNCSDAPQP NSIVGKVSTD
NGATWGEQHD ISAGITAEPK TGYS DPSIVV DWERGDVFNH HVKSFDAGYF TSQPGTDPDD
RNVAVHAYAK SSDNGSTWVA DTVITDQVVA HDTWDSRFAT SNGIQLQYG AYKGRVLQPS
VTRM

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> RXA02526 (1-1206, translated) 402 residues
VITEDDAAQI NQAAVLSNID REKLWEDAKN VGYPILGLVR QIASHLPEGP NGRVHYGATT
QVIMDTGLVL QMTASLNALD KQIVRLGNAL AARAEHKDT VMPGRTHAQO AIPTTFGATL
ATFLDQIRRO RERLEEALER VRVISLFGAG GNNAAQGEQA ATVRAEMARL LDLKDPVVS
HVERDVLGDF GWVCSTLCGS MAKFGRNIVD LSRTEIGEVF EPYNSHRGAS SMMPQKVNPI
SSELMIGISV VAGALTSTLP RLQESGHERA AGEWQGEWLV IPTLANLAGA ALDEAIVVAE
GMRVDTDRMS SNLAFAGGLI MAEAQMIQLA PALGREKAHD LVYEASTKTR EEHTTLAEEL
PIIAVQHGV E DLLPKNFAQP ADYVGEAQSM VNAAVAAWNA QL

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> RXA02530 (1-450, translated) 150 residues
MNRPDPKTPA GTLVAGYYGA YENEFSAFV RPVKVSRVEP TSEDPSSPLR VSSDDGREWI
TRMVLNATGT WTNPYVPYIP GIDKFQKQL HTVNYRKAED FKGKKVLVVG GGLSAVQFLL
ELEGLAETTW ATRRPRTYAA RVRRLGHCG

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> RXA02531 (1-711, translated) 237 residues
MKIPLYMAEE AAALNLLADG RLALGVSRGS PEPAEKGWEA FG YDGGDDPK AAGMAREKFL
RFLDAIDGRP MSIASENQYP RLYHPGTPLP IFPHDLDLGK SIWWGAGSHN TAEQAARDGV
NLMSSTLVAE ATGQSFGDLQ ADQIAFYRQA WKEAGHDWTP RVSVSRSIFP IVTDRDRELF
GLQGQGGDQV GILDDTRSTF GRSYAGSPDE LIDQLQGRQS CDGSRHLDAH RPQPNGC

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> RXA02535 (1-1155, translated) 385 residues
VTPRPVSSVA RLVEDNAQDF LRAVQAKLLT LAPQARGHFP TADDATHISI AEMVSALLEG
TGEEGKVDDK TLEFFKEAAL DARRFGLTPE MHSALGEAVR SELLSLCELD PFENVLFAER
AIAATTAVSV EAVREADEAH IPASYQAEIV EVEKRSRRFT VVRMQAETQL PYLPGQYLAA
TADFLPNTWR YLCPSIPTNE WGQVEFHIQS DADDIAGLLA TTRLGDKWRL GPGRGDFGQS
KISSGNLLF IAHTGTGLAPL RAYMFELMNQ AAPRLHFFV GADYPGELEYE LTGMWNFAAA
SPWLSVVPVS THDKDAWWVQ ATEASQPPRG LHLHQTGSMA KIVTEAGAWA DRDVLIAAPE
SWARDVRRAM IRRGTPAQOI EILGF

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> RXA02548 (1-291, translated) 97 residues  
 PPIYFSHDRE VFERDGMWLT AGEWGGPKKG EEIVTKTVRY RTVGDMSCTG AVLSEARTID  
 DVIEEIIATST LTERGATRAD DRLSESAMED RKKEGYF

> RXA02558 (1-975, translated) 325 residues  
 MSTIEERTPG AVATEPVGHE GARVSINEKN VWSLGAGPAA FALLAMIVLM IASGVFFAQS  
 INTLENDGGG TLAVTGILAS IVVFTVALV TITSVKVSP GHTLTVQFFG RYIGTLRRTG  
 LSFVPPLSVT KKVSVRVRNF ETNEAKVNDY NGNPINIAAI IVWQVADTAQ ASFSVEDFEE  
 FLHQQAESAL RHVATQHPYD SPVDGRVSLR GATDEVSEEL ADEVAQRAAV AGLEIVEARI  
 SLSYAPEIA QAMLQRQQAS AIVDAREKIV EGAVTMVETA LDQLEQREIV DLDPERRAAM  
 VSNLLVVLCS DTNAQPIVNA GSLEYQ

> RXA02565 (1-342, translated) 114 residues  
 AALGDLADEV EIEHLISEEA TVSPTDSRLY NTLEKVLGDF FPDAPVVPII SSGGSDLRFG  
 RRLGGVGYGF AVHARERTLA EAMGQLHSHD EALYLEDLEL TVRGYDSVVR EFLG

> RXA02567 (1-738, translated) 246 residues  
 LIRNACVNDL TPDSGQEIRN AESLERFFEG TPNVKITKLE PHPGRTSIIV TVPGSDPDAAE  
 PLTLLGHTDV VPVDLPKWK DPFGEAISDG QIWGRGSVDM LFITATQAAV TRQVAREGGL  
 RGTLTFTVGVA DEEARGGLGA KWLSEEHQNL FSWKNCLSES GGSHPVVDG SDAVVINVGE  
 KGAAQRRIVH NGDAGHGSIP FDRDSAIVKI GEVARRIAAA DLKVAKDDIW QGFVQAHFRD  
 PETEQA

> RXA02574 (1-1008, translated) 336 residues  
 LARAQIPEQQ RDQVASLMMV GVANYDQALD ALNQGCVGGIF IGSWTDENLL TEPGRNIEAL  
 REAVGRDFSV SIDFEGGRVQ RATNILGDFP SPRVMAQTMT PEQVEDLAEI LGTGLAAHGV  
 TVNFAPVVDV DAWGLPVVGD RSFSNDPAVA ATYATAFAKG LSKVGITPVF KHFPGHGRAS  
 GDSHTQDVVT PALDELKTYD LIPYQALSE TDGAVMVGHM IVPGLGTDGV PSSIDPATYQ  
 LLRSGDYPGG VPFDDGVIYTD DLSGMSAISA THSPAFAVLA SLKAGADQAL WIDYGSLSGA  
 IDRVDAAVSS GEYPQEQMLA SALRVQLLYI TRLEQK

> RXA02589 (1-765, translated) 255 residues  
 MSISDNRSRQ LGELPAGRPL QSDFDNDLDY PRLGSVTFRR GTLTENQQTM WDEKWPELGR  
 VLEDELIDVD AWFEGREGAKT IVEIGSGTGT STAAMAPLEA DTNIVAVELY KPGLAKLMGS  
 VVRGEIDNVR MVRGDGIEVL NRMFADGSLD GIRVYFPDPW PKARHNKRRI IQSGPLNLFA  
 KKLKPGGV LH VATDHADYAE WINELVEVEP LLEYKGWPWE ECPQLTDRQV ITKFEGKGLE  
 KDHVINEYLW QKVQN

> RXA02592 (1-771, translated) 257 residues  
 MASFPPEPAL RRLATLGRSW GLLSDFKYEQ TRPDIFYGNL ALDTSSLVAA LSEDISGAGL  
 NDLKVLVDVG GPGYFAEAFE TLGATYFSVE PDVGEMSAAG IDVHGSVRGS GLDLPFLPDS  
 FDVVYSSNVA EHVSAPWELG EEMLRVTRSG GLAILSITIY LGPFGGHETG LWEHYVGGEF  
 ARDRYTKKHG HPPKNVFGES LFNVSCREGL EWGASVGNAE LVAAFPYHP YVWWVMVKVP  
 VLREFAVSNL VLVFKKH

> RXA02603 (1-996, translated) 332 residues  
 VSEHAAEHHR DTQNFILTSEP HTTAIEDNKK RQPPKNLADG MIKALRPKQW VKNVLVLAAP  
 LAAGADAIFN QRTIIDVAIA FVVFCEGASA IYLVNDARDV EADREHPTKR FRPIAAGVLP  
 VGMAYGMAVA LIALSIGLSF LATDGVALLAC VIGVYIALQL GYCFGWKHMP VIDIALVSSG  
 FMLRAMAGGV AAGIELSQWF LLVAAFGLSLF MASGKRYAEI LLHERTGAKI RKSLESYTPT  
 YLRFVWMAA TAVVMSYALW GFDLSQHSTD AGPWYQISMV PFTIAILRYA AGVDTGDGGA  
 PDEVALSDKV LQVLALAWVF CIVMAVYIMP MF

> RXA02630 (1-1323, translated) 441 residues  
 MTNQFPTNNG ENPDRASTEP SETNSFEHVR SSYPQWNTA SNQNPYPGAG FGSEQNTQQG  
 NEQQAPAWTS WDNQPLSTDV KPAKEKRKVG IGTALALMLV GSIATGSVVG VAATQLGSDS  
 STPVNALEQP SVQRTTNAEP GSAEQVAAV LPSVVSIAI TRTSASEGSG SISSDGYVM  
 TNNHVAGIE QSGVLEVSFS DGTTAQADFI AGDPSTDIAV IKIRDVSNLP VMSFGDSDAL  
 GVGQSVMAVG SPLGLSSTVT TGIVSAVNR VPASGDGGES SLIDAIQTDA AINPGNSGGP  
 LVDMDGNLIG MNSVIASISS TSDSAGSIGL GFSIPSNAF RVADQLISTG QVTQPMIGVQ  
 VGTDNSVTGA VIASVQDGGP AADAGLQPGD IVTKLNDRVI DSPDSLIAAV RSHDFGETVT

LTITQPDTSQ SREVEVTLTS E

> RXA02641 (1-2076, translated) 692 residues

MLAIILTAVL GASGLAAAGT QYLNTQGEI GPVAVQNDSE SFNSGTVV VV EDAAVTAQGE  
 GGGARTVKEF QRDQQFSSFA LTWTGKKDIT AFVRAEQEDG TWSQWYDLEP MVNEDQGTNG  
 TELIWHGPTN KIQVSTLNVD LFGADAAAAD ENGQDIPAVD AAEAAPAAEP APAEAPVEEA  
 PAPVAEPAPA AEPIAEPVAD YSANDGLAPL PSNYGDIQPV ADVDDGLNAV FIDGNADAGV  
 GIANVADTDG MPKVISRAGW GADESLRCSN PTIDDGVSAI TIHHTAGSNN YTEAQAAAQV  
 RSAYSYHAKN LGWCDIGYQS LVDKYGNIYE GRAGGMTNAV QGAHAGGFNQ NTWAI SMIGD  
 YSYNAPPQET INAVGELAGW RAKVAGFDPT GTDTHYSEGT SYAKYSYGTR VSLPNIL AHR  
 NVGLTACPGD AGYAQMENIR QIVKAKYTS LQNGNTGGTTT TPATTPKETS TSNA PSTTTA  
 QLVTPAEPQQ YSESDALAAL LTGGSSGGTD LLNGANSEQL LTGLGSIAAV LIAASLADGG  
 LNLISNVGS NNGVPVLGDI KITDVIPIVD TAINLTGDNK YSRGWNDLNN TLGPVLGAAT  
 GGETTVKYTS DQNSEVTFVP FENGIMVSSP EAGTHGLWGA IGDAWAQQGA DLGPLGLPTS  
 NEYTVGEQLR VDFQNGYITY DSATGQASIQ LN

> RXA02643 (1-1044, translated) 348 residues

MKNVSFGLDT FGDNAIDLQG NPVSPAQTLR NIIDEAKMAD KVGVDIIGIG EHHREEYSVS  
 APDIVMTAIL ASTERLKVTS SVTVLSSDDP VRLFERYSTM NALSNGRAEI TLGRGSFIES  
 FPLFGFDLQD YEQLFSERLD LFAKILEADS RGQGVTHWGE TRSALENQML YPPTENGIHA  
 WVAVGGSPEP VVRAAKYRFP LMLAIIGGAP ERFRPYVDLY KRANEQFGQP QKPIGVHSPG  
 LIAATDEEAR ELALNDWLEL QRKIGAERG W APADAMQFER EIDHGSLYIG SPETVAKKIA  
 KTISVLDLDR FTLKYASGQT PHEYLLKSIE LYGTEVIPLV KDILTKQA

> RXA02644 (1-651, translated) 217 residues

MAHLTQYQLP QAGQVFEHEL EIKRSRFLTY ITRVQDQEQ A REFIIHSIKEL YPDARHHCSA  
 FIFHVDGSND VERSSDDGEP SGTAGKPMLE ALRGSGMKDI AAVVVRYFGG VKLGTGGLVN  
 AYTNVATELL PEVLQVTRSV REIFKIDLPH SDAGRIEANL RGMGIIITDT EYGAEVITYTL  
 ALLPGEQAAV ESQ LSSMMGA EIELKESGHM WVESPSD

> RXA02702 (1-1458, translated) 486 residues

VTPPHLDSAQ DIDLSRVHLI GIGGAGMSGV ARILLARGKT VTGSDAKDSR TLLPLRAVGA  
 TIAVGHA AEN LELSGELPTV VVTSFAAIPQ DNPELV RARE EGIPVIRSD LLGELLE GST  
 QVLIAGTHGK TSTTSMSVVA MQAAGMDPSF AIGGQLNKAG TNAHHGTGEV FIAEADES DA  
 SLLRYKPNVA VVTNVEPDHL DFFKTPEAYF QVFDDFAGRI TPNGKLVVCL NDPHAAELGE  
 RSVRKGIKT V GYGTA DAVQA HPEVPAMATI VDSQVVAEGT RATINIDGQE VSVILQIPGD  
 HMLVNGAAAL LAGYLVGGDV DKLVEGLSDF SGVRRRFEFH GAIEGGKFNG AAIYDDY AHH  
 PTEVTAVLSA ARTRVKAAGK GRVIVAFQPH LYSRTIEFQK EFAGALS LAD AAVVLEIYGA  
 REQPV DGVSS EIITDAMTIP VVYEPNFSAV PERIAE IAGP NDI VLTMGAG SVTMLAPEIL  
 DQLQNN

> RXA02703 (1-1089, translated) 363 residues

MANSPKPMRV VVAGGGTAGH IEPALAVAEA LRDKHGATVS ALGTARGLET TLVPDRGFEL  
 HLIEPVVPR KPNMDLLKLP FRVAKALGQA RKALKD TDAQ AVIGFGGYVS APAYMAAKSL  
 GLPFFVHEAN ARAGMANKLG VKLGGVGLNA VAGSGMDGDV VGIPIRAVLS GARDESAADR  
 ARDTWGLDKD RQTIFVTGGS QGSVSINKAV EQAVDQ LVEA GFQVLH AVGK KNELPAAKPG  
 YHPVPFIDDM QAAYTVADLI VCRSGAMTVA EVTAAGVPAI YVPLPHNGE QALNAQAVIK  
 AGAARQIDDA DFTAQTLIDA TLDILLHPST HQSMSDAKT STAGNASTVI ADMIAATINS  
 QHN

> RXA02704 (1-1689, translated) 563 residues

MTTGASKKPA RPNTGAKTRT GLGIRERISG AWNDLLARPL TDYIMILCIV VILSCLGVVM  
 VYSSSMTWSL REGGSVWGTA VRQGIMIVLG FFAMWVALMT RPQTIRNLSN LILIVSIVLL  
 LAVQIPGIGT GKEEVGSQSW IALGPIQFQP SEIAKVAIAV WGAHYLAGKG PVQHWFNHNL  
 MRFGGVGAFM AFLIFMEGDA GMAMSFVLV LFM LFFAGIA MGWIAIAGVL IIAALAVLAL  
 GGGFRSSRFE VYFDALFGNF HDVRGIAFQS YQGFLSLADG SGLGVGLGQS RAKWFYLP EA  
 KNDFIFAIIG EELGLWGAL VIALFAGLLY FGLRTAKKSH DPFLGLMAAT LTASVVSQAF  
 INIGYVVG L PVTGIQLPMI SAGGTS AIT LASMGLLISC ARHEPETVSA MASYGRPAID  
 RLLGLREPSS TLTTSNASLR SNKTKAAKQK PSPQKESRDR FGEPVTARRA QAPRSGRAGV  
 QSEAPRRSTG SVKGRSSGQD NGRSNEGTR SQSTTGGR AA DRSVDRSRQS RPTERRSESR  
 AMIGVTTATA DKCEIRRTTN KDG

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> RXA02705 (1-1416, translated) 472 residues
MGSLSHLPQA LQGRILVAGA GVSGLSIAKM LSELHCDVVV ADDNETARHM LIEVVDVADI
STAQAQEQLD SFSIVVTSPG WRPTSTLLVD AHRQGLEVIG DVELAWRLDQ AGVFGEPTHW
LAVTGTNGKT TTSTMLAAMM NEGGFTAKAV GNIGIPVSEA LVAKNRIDVL VAELSSFQLH
WSPTFTPDAG VVLNLAEDHI DWHGSMRDYA LAKMEVLK GK VAIIGADDPY LVQLTSEADL
SGLIGFTVNE PATGQLGVKA GELVDNAYGN NVVLASADGI NPAGPAGVLD ALAAAVARS
QGVAPAEIAR ALDSFEVAGH RGQVVAEHDG VHFIDNSKAT NPHAADSALA GHDSVIWVVG
GQLKGADIAP LVKKHEQRIK AALVLGADRA EIVAALKEHA SQASVFVTDK TEPFEAMEEI
VTEAFSISEP GDTVLLAPAA ASLDMFKGMG QRGDLFAHNI IGTIKGLTEE KG

> RXA02706 (1-1098, translated) 366 residues
MQQIMVSGTV AFLVSIFLTP VLIRYFTNRQ LGQEIREEGL QSHLRKRGTP TMGGIAIIAG
IVVAYVFTNI LAMIQGVGGF TVSGLLVGL TLGLGATGFA DDFIKLYMNR NLGLNKTAKL
VSQLAIALIF GFLVLQFPDE NGLTPASTHL SFIRDIDTID LGFGGSVFGI IVFLIFIYVV
VSAWSNAVNI TDGLDGLAAG TTAFFVMGAYT LITFWQFRNS CDTAVEAGCY TVRDPLDLSV
LCAAGLGATL GFLWVNAAPA KIFMGDTGSL ALGGLVAGIS VVSRTLLMV IIGALFVIEI
ASVAIQIGVF KTRGKRVFKM APIHHHFEAL GWAETTVTIR FWLIAIMAVL AGVGVFYSDW
LHLAEV

> RXA02707 (1-345, translated) 115 residues
MGELGDDASE AHAELGAELA KYNVQELVAV GENPNCAALA ESAASLGVST HVVSDVDAAL
ELLAGHIKRD DVVLVKASNA DRLWRVAEAL HGMVPGKNT GGSVNDDSRR NVEGQ

> RXA02708 (1-435, translated) 145 residues
MAPRTKARVV WFTTDAGQAK KSDYWATIS LDAVARASFT LNTKDGSWPV TLQVFGEHQV
ANALAAAAIA MEAGVAPELV VAGLEAHSAA SAHRMDVKTR ADGVTIINDS YNANPDSMRA
GIAALAYTAS GRSEATKLGS AWPNG

> RXA02709 (1-729, translated) 243 residues
MTLGEIADIV GGRLTGGAQE DTLVSSSVEF DSRSLTPGGL FLALPGARVD GHDFATAIE
KGAVAVLAAR EVDVPAIVVP PVKIQESNAD IYAHDPDGHG AAVVEALSRL ARHVVDICVA
GHQLNVVAIT GSAGKTSTKD FIATVLDQDG PTVAPPGSFN NELGLPHTAL RCTTDTKYL
AEMSARGIGH IKHLTEIAPP RIAAVLVNVA AHLGEFGSRE NIAQAKGEII EALPSKKTAR
YQS

> RXA02710 (1-1563, translated) 521 residues
MATLLDLTK LIDGILKGS QGVPAAHAGE QAIAAIGLDS SSLPTSDAIF AAVPGTRTHG
AQFAGTDNAA KAVAILTDA GLEVLNEAGE TRPVIVDDV RAVLGAASSS IYGDPSKDF
LIGVTGTSGK TTTSYLLEKG LMEAGHKVFL IGTTGTRIDG EEVPTKLTP EAPTLQALFA
RMRDHGVTHV VMEVSSHLS LGRVAGSHFD VAAFTNLSQD HLDHFHTMDD YFDAKALFFR
ADSPLVADKQ VVCVDDSWGQ RMASVAADVQ TVSTLGQEAD FSATDINVSD SGAQSFKINA
PSNQSYQVEL ALPGAFAVAN ATLAFAAAAR VGVDGEAFAR GMSKVAVPGR MERIDEGQDF
LAVVDYAHKP AAVAVLDL RTQIDGRLGV VIGAGGDRDS TKRGPMGQLS AQRADLVIVT
DDNPRSEVPA TIRAAVTAQA QQGASESERP VEVLEIGDRA EAIRVLVEWA QPGDGIVVAG
KGHEVGQLVA GVTHHFDDRE EVRAALTEKL NNLPLTTEE G

> RXA02711 (1-2112, translated) 704 residues
VTFFPSNGRR GERAGREDTS RRSAYQDES RAARERELTR RSGKAKGVNQ EEGVTYRPKS
STQGGARKRR VNMVTAIALV IAGVLIIRLG WVQVWGPPEL SLNASEQRTR VYVDPARRGS
IVDREGNQMA YTMQARSLTV SPNIMREELK TGTDLALRLA AEETDPENVA SYVTIEEGNA
YVFASEEQRE TILSDKVEER IQSIADRIPE IIKSHDQDVT GISSEEILDK LNADSQYEV
VRNVDPDVAS EITDEMPSVA ADHQDIRQYP NGAIGENIIG RISMDGEGQF GFEASNDLL
AGNNGRSTQD MSILGQAIPG TLRDQIPAI GASVELTVDL DLQTYVQQAL EQAKANSAGE
NASAVVLDK TAENVLAMANT DTINPNEDTG KQIEQGKSF NPSVTHPFEP GSVAKVITAA
GVIQEGLTTP DEVLQVPGSI EMAGVSVGDA WDHGVPVPTT AGIFGKSSNV GTIMLAQRLG
EDKFADYLER FGVGQPTGIE LPSESQGLLP AREQWSGGTF ANLPIQGMS ITTLQMGAIY
QALANDGERI QPRIIKSVTD SDGTVLEQPE PDKIQVVSAA AARTTVDMFR SVTQVDPTGV
QQGTAPDASI EGYQISGKTG TAQKVPNTG AYSNSQYWT FAGIAPADDP RFVVAIMLDE
PERGVHGGG QTAAPLFKDI ATWLLNRDNI PLSAATEPII LQAQ

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> RXA02713 (1-1011, translated) 337 residues  
MEDFSLDGNH GHVPVMDRDM AALIAEHVEA LGENAVIVDA TLGAGGHAEF FLNTFPKARL  
IGLDRDQNAL RDARARLAPF GERFIGVQTR FDGLREVLES VEGDIIDLAR EHGIAGALFD  
LGVSSMQLDQ VERGFAYRTD APLDMRMDAT QGITAADILN TYSHGDIARI LKTYGDERFA  
GKIASAVLKE REKEPFTTSA RLVELLYDAI PAATRRTGGH PAKRTFQALR VEVNNELDL  
KNVLPQITDA LNVGGRAVFM SYQSHEDKLV KKFFTDLTTS KTPPGLPVDL PGTAPQFKQV  
TRGAETASEA EIEENPRAAP VKVRAIERIG NNSGDLS

> RXA02716 (1-561, translated) 187 residues  
VSPPIIRKLSI PEFTTNTVPVL VDIYIAAMNY DKAIRDTRIE VWRNRSQNPG FTAVAALMDD  
QVVGVAAGFN GSPDHWWQH Q LRRGLRQQGG PTEEEIHIIH NYFEVAEVHV QPGFQGHGIG  
RKLMEHELLKD KQNTFAILST PEVDDEANHA FSLYRSLGFT DLLRQFRFDG DQRPFAVLIT  
ALPLHDS

> RXA02722 (1-1326, translated) 442 residues  
MTSPNNYLAK IKVVGVG GGG VNAVNRMIEE GLKGVEFIAV NTDSQALMFS DADV KLDIGR  
EATRGLGAGA NPEVGRASAE DHKNEIETI KGADMVFTVTA GEGGGTGTGA APVVAGIAKK  
MGALTIGVVT KPFEFEGRRR TRQAEEGIAA LKEVCDTLIV IPNDRLLLELG DANLSIMEAF  
RAADEVLHNG VQGITNLITI PGINVDFAD VRSVMSEAGS ALMGVGSARG DNRVVSATEQ  
AINSPLEAT MDGATGVLLS FAGGSDLGLM EVNAAASMVR ERSDEVDNLI FGTIIDNNG  
DEVVRTVIAT GFDAARASAA ENRRAGISAA PAAEPVQQQV PTTNATLPPE KESIFGGARE  
ENDPYLSRSA GARHRIETR SGGGLFTTGN DRDYRRDERR EDHRDERRDE RRDDRSYDRR  
DDRRDDRRDD RGDDL DVPSF LQ

> RXA02723 (1-477, translated) 159 residues  
DATAAGQNIV ELPWVKSVTV NRALPSTITV ELTEREPAVF IKRADGDHVI DTEGKEIIIG  
TPPVGTVEVS GADEGNSEVL PAVIAVINAI KAQDAQMTES IQVVEAPDQF DILLKMNDGR  
EIIWGSSENN HDKAVAMSTV LKREGQRWNI SSPSMVTVR

> RXA02745 (1-879, translated) 293 residues  
AGISFEVPRG QVLALLGPNG AGKTTTIEMC EGFTAPTSGS IRVLGIDPAT EPDQVRRRIG  
IMLQGGGSYS GIRVFEMKL AASYNNDNPHD PEWLLDLVGL REQRKTTYRR LSGGQQQRLS  
LALALIGRPE IIFLDEPTAG MDAQSRNMVW ELVNDLRRDG VTIVLTTHLM DEAEALADHV  
IIVANGQILA SGTPDELTAQ RDHLEINVS ETTSPDLDR LVDDLSSLNI GVDKARANRP  
LHYSRLTQQA TPDSLAHIVQ AVARQNMVIR SLDTGHRSL DVFLDITGKE LRS

> RXA02746 (1-267, translated) 89 residues  
GVQGMTVTET QGFGQQKGHT EVYRGAEYAV DFVPKVKIEV IISDAQAEV INIIVETART  
GKVG DGKVWM TNIEELVRVR TGERGEAAL

> RXA02813 (1-642, translated) 214 residues  
GALTGGWLVA VD NAARALEA LEFPVSYGGA SGNMTAVHPR GFEIQAKLAE ELGLFDPQWV  
WHSRTPITA IASALATAAG VVRKIAGDVV FYSQTEVGEL REKSPGGSSA MPHKANPAAA  
IACDGYARRA PGLLATLFDA LDCRLQRGTG SWHAEWATLR ELAAVTHSAV SRAATSIDGI  
TVNVDMASR VNGPTGHAED LAERALEIYG KGRS

> RXA02820 (1-507, translated) 169 residues  
ANSAEDLSHD PEAAAYFLDE NGDAKAPGTL LQNPDYAETI RLISEGGPDA FYTGEIAADI  
VERATREVDG FTPSLMSTAD LAAYTPETRE ALCAPYRDKI VCGMPPSSSG GVTVMETLGI  
LNNFDLAQYP PTEVGLDGGL PNAEAVHLIS EAERLAYADR DAYIGDPAF

> RXA02828 (1-558, translated) 186 residues  
MKRRDFLSAL SAGTSLGX F APQLLLAQGM NQPMRAPIHV GKSGLRARDA EALATWYQSH  
VGLQEIGRDG ATIHMGAGGT VLEITQYDG IVLAPMRVAG LYHNAFLPA RADLARWVLD  
ASARQLRIDG YADHLVSEAM YLTDPEGNGV EIYADRPASD WWRNGQVEM DSLQIDFYSM  
IATLDG

> RXA02834 (1-495, translated) 165 residues  
DSKGRSVD FK NTIIIMTSNI GSQVLLENVK DAGEISDDTE KAVMDSLHAY FKPEILNRMD  
DIVLFKPLSV NDMSMIVDKI LTQLNMRLLD QHISIEVTEE AKKWLGE EAY EPQFGARPLK  
RFVQRQIETP IARMMIKESL PEGTIIKVDL NDNKELDFKV VKPTS



> RXA02839 (1-417, translated) 139 residues  
 CVVNDYADRK FDGHVKRTAN RPLPSGAVTE KEARALFVVL VLISFLLVLT LNTMTILLSI  
 AALALAWVYP FMKRYTHLPQ VVLGAAFGWS IPMAFAAVSE SVPLSCWLMF LANILWAVAY  
 DTQYAMVDRD DDVKIGIKS

> RXA02855 (1-1185, translated) 395 residues  
 VMEIGVQVAS WMDRHHDEVI KWRRHLHSHP ELSHMEYRTT EYLASVLKDH GMEPHLFPGT  
 GLMVDIGPEG DSRLAFRADI DALPILLESTG LEFSSTATGV AHACGHDVHT VIALALACAL  
 NTIELPIGIR VIFQPAEEVM TGGATDVIAH GGLDGVDAIY AIHVEPKLV GRVGVRAIAI  
 TSASDVIEIR VKGEGGHSAR PHLADVVYA LSKLVVDLPG LLSRRVDPRT GTVLVFGTIN  
 AGYAPNAIPD SGIVSGTLRT ADISTWRDMR PLISELVEQV LAPTGVTHEL IYNPGVPPVL  
 NDDVATALLA SAARDMDTQS VVQAPQSSGG EDFSWYLEHV PGSMARLGCW PGHGPKQDLH  
 QSDLVVDERA IGVGVRLFGS LVQQYSSRSE AFLNS

> RXA02859 (1-726, translated) 242 residues  
 QYTVQDQLLHG LLLASGNDA YLLAQELGGD QATLEKVNAL AKELGTQDTF VATYSGLDAP  
 GMSTSAYDMS LIYQHAWQNP VFESIISTDH IDFPGWGDNE GFQVWNDNAL FMNDPDGIGG  
 KTGYYTDDANH TFVGGGLDRGG RRLAAVLLDS TVSDIRPWEQ ARLLIDASLP ITPGSGVGQL  
 GSGSANDVAP ATPELPEPTD NLTSGEGGSQ NTLKLVLVPI GIIVLLLLIAA LAWTFRSPKK  
 KN

> RXA02895 (1-666, translated) 222 residues  
 MAEQLRQFEG RVLPNQSEDL EDQGLGFDLG TVFSRRKVLG FIGVGGAGVA LAACSPSGSS  
 AASSTSSASS SAAATTSAAA ETITEMKSET AGPYPGDGSN GPDVLEVSGV ERQDITKSID  
 SDTVAEGVPL TLTMTILDMN NNNQPMEGAA VYVWHCDAPG RYSMYDSELE DETYLRGVQI  
 TDKYGQVTFD TIFPGCYAGR WWHIHFEVFP DRDSITDSTN NI

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 MTDPTCTLALDIGATKIAYALVPDNTPTTTLSTGRLGTKEGDSPIEQIRLVLLAGLKAAE  
 EHGLSVARIGMGAPGVILGPEGTIVNGETLTWAGTDLRGLSREVLNVPFAAHNDVRVW  
 AYGEHHLGTGKDLTGRVLYVSLGTGVGGAIIEDGIMMSPTGTAGEFAEVVCSDHAGLAV  
 RCENVASGTGLTRYNEAAATQLDLPAIMERFHQGDGLAQIITGNLRGFGQALGALVTV  
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 NAF

>RXN00073 TRANSLATE of: rxn00073.seq check: 5738 from: 1 to: 1683  
 MTTTTGSARPARAARKPKPEGQWKIDGTEPLNHAEEIKQEEPAFAVKQRVIDIYSKQGF  
 SIAPDDIAPRFKWLGIYTQKQDLGGELTGQLPDDELQDEYFMMRVRFDDGLASPERLRA  
 VGEISRDIYARSTADFTDRQNIQLHWIRIEDVPAIWEKLETVGLSTMLGCGDVPRVILGSP  
 VSGVAAEELIDATPAIDAIRERYLDKEEFHNLPRKFKTAITGNQRQDVTHEIQDVSFVPS  
 IHPEFGPGFECFVGGGLSTNPMLAQPLGSWIPLDEVPEVWAGVAGIFRDYGFRRRLNRAR  
 LKFLVAQWGIEKFREVLETEYLERKLIDGPVVTNPGYRDHIGIHPQKDGKLYLVKPTV  
 GHTTGEQLIAIADVAEKHGITRIRTTAEKELLFLDIERKNLTTVARDLDEIGLYSSPSEF  
 RRGIIISCTGLEFCKLAHATTKSRAIELVDELEERLGLDVPKIALNGCPNSCARTQVSD  
 IGFKGQTVTDADGNRVEGFQVHLGGSMLNDPNFGRKLKGHKVIADEVGEYVTRVVTTHFKE  
 QRHEDEHFRDWVQRAAEEDLV

>RXN00136 TRANSLATE of: rxn00136.seq check: 222 from: 1 to: 1095  
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 LVAAGLKVHLNVPDAENGKSLEVAGQCWDELGGAAFGRRDIVIGLGGGAATDLAGFVAA  
 AWMRGVRVIVQPTTLLAMVDAVGGKTGINTAAGKNLVGAFHEPDAVFIDTDLATLPDA  
 EIIAGSAEIIKTGFIADEILRLYETDPAACLKKEVEGSHLPELIWRSVTVKGSVVGQDL  
 KESSLREILNYGHTFAHAVELRENFRWRHGNNAVAVGMMFIANLSHKLGLIDAPLLERHRS  
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 Y  
 EAISH

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WHSNVVMHVPPIETAEEARSVAKENDIDVVVCVGGGSTTGLAKAIAMTTALPIIAVPTTYA  
GSEATNVWGLTEAARKTTGVDNKVLPVTVIYDSALTMSLPVEMSVASGLNGLAHCIDSLW  
GPKADPINAAMAAEGIRALSAGLPKIVADAQDVGDRDEALYGAYLAAVSFASAGSGLHHK  
ICHVLGGTFNLPHAQTHATVLPYVLAFNAPYAPQAEQRAAAAFGSATALEGLQQLRAQVG  
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>RXN00178 TRANSLATE of: rxn00178.seq check: 4972 from: 1 to: 885  
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FLTKVGHITDDKRQEFVLLSDTLGASMQTIAVNNEAYEDATEATVFGPFFVDDAPLVQNG  
DDIAFGAVGQPAWVEGTVKDTEGNPIPNARIEVWECEDEDGLYDVQYADERSAGRAHLYSD  
ENGEYHFWGLTPVPYPIPHDGPVGQMLQAVGRSPVRCAHLHFMVTAPEKRTLVTHTIFVEG  
DPQLEIGDSVFGVKDSLKKFVEQPAGTATPDGRDVGDTWARTRFDIVLAPGNV

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EFVGLASALDVTDTHTVVPISALKGDNVAEPSTHMDWYTGPTVLEILENVEVSHGRAHDLG  
FRFPYQYVIREHATDYRGYAGTINAGSVSVGDTVYLPGRRTTQVTHIDSADGSLQATASVG  
EAVVRLAQEIDLIRGELIAGEDRPESVRSFNATVVGLADRTIKPGAARKVRYGTELVRG  
RVAAIERVLDIDGVNDNEAPETYGLNDIAHVRIDVAGELEVEDYAARGAIGSFLIDQSS  
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MVFTLADSVSQUALGPSWLDPMELLSGSGPFGSIFLPAMLAIVFIESGLLFPLLPGDSL  
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QTEDFFEKHGPVTIILCRFVPIVRTYAPLVAGMAGMRYRTFIIYNMIGGILWGSVVALG  
AALGQFDFVRNNIDLIFLLIVFISVVPGLVGMARKLADGHKQANTEPQENPAVQTAPVKT  
QEAQEAQPN

>RXN00299 TRANSLATE of: rxn00299.seq check: 5963 from: 1 to: 978  
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ISHIGANTKTIRLGAGGVMLPNHSPYVIAEQFGTLAELYPDRIDLGLGRAPGDMNTLRA  
LRRDPQSAENFPDVELNSYLTGRSRLPGVNAIPGKGTNVPLYILGSSLFGAQLAAQLG  
MPYSFASHFAPTHLEHAVQTYRDNYQPSEQHPEPYVIAAVNVTASDSTEQAHDDEFYKVAR  
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LMISLQSPNTEATTRNMEILADAWIN

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DGVVESKEEFQTYLQAVVGEYYQEDNISAFDLAAPEMVDFFEKNTDLQWTPGAKINDIYG  
NLPAGAGTGHRSVGPKPFNGRKVPKSVLPKLRHQLYETSFLGMGIMAGPDLTKFLSASQFD  
PRGWVHAARRVIVHMDMVVHKRNMQMVNGAALTARLATSADKLGVDLLVNHSVSLNYK  
NDRVTGVKVQTPQGLVDFEATAGVVLATGGFPNNVDLRKELFPRTPSGQEHWTLPAAETT  
GDGLSMAREIGAGFVNDLKSPAAWCPVSLVPYFNGKVGTFPHIMDRAKPGSIGVVSTGKR  
FVNEANGYYDY

>RXN00393 TRANSLATE of: rxn00393.seq check: 4530 from: 1 to: 894  
MSHTEPQPNSVTLSDWIQGARPRTWANAFAPVIAGSGVAAFHDGFVWWKALLALVVAWAL  
IIGVNYANDYSDGIRGTDEDRTGPLRLTGSLAEPKKVKAAAFISFGIAGVAGTALSLLS  
AWWLILIGILCVLGAWFYTGKKNPYGYRGLGEIAVFIFFGLVAVMGTQFTQTGSSVWAGL  
AAAVGVGMSAGVNLANNIRDIPTDSKTGKITLAVRLGDAGARKLFLALISTPFIMSICL  
AFVAWPALIAIIVFPLALKAAGPIRNNATGKDLIPVIGSTGRAMALWAVLTGLALAFS

>RXN00397 TRANSLATE of: rxn00397.seq check: 3065 from: 1 to: 801  
LSLTEGEIPIQTKLGHWRDVRDSEDLPFQVIASRTNVTIMENTLEWTNSRLERGEEFTE  
LDIYAHYLEELEDYALQFTFDVEPYFTNLHSSNRMLFPGPPVDFPINAETRCIQLDAGVA  
VKKDGVVLGTSDMARSPLRTAAGQEAYEYFFKVVREGIIGQLRPGVICADVHEATLDYLS  
PQLPRMIDIGMLGADTDFTIYRKRNVGHLMGKQESFANELRPGYKHILHHGSYGAAEIP  
WRYNGVAIGTEDLWYIGADKTYILSQR

RXN00398 TRANSLATE of: rxn00398.seq check: 1161 from: 1 to: 750  
MAKLFDSSHFIIDPQHPLIENNGYLPEPFTVEDYTARVEGLEVAAGAIVSGSFQAFDQGY  
LKDALAVLGPYGVGTQIPADTSDQEILDLKAGVKAVRLNLKRGGSGAGLDDLETARRV  
HDLAGWHTELYVDARELDELESTLASLPAVSIHDLGLHRDGLPALLRLVENGIKVKATGF  
GRVELDPTEVIQAIMAVDPTALMIGTDLPSTRTKRPFEDADLDLIAETVGEDHVDNVFWN  
NAAAFYLGDO

>RXN00434 TRANSLATE of: rxn00434.seq check: 6086 from: 1 to: 867  
VLVKVPAGVNRADLLQTQGNYPVPAGASEILGLECAGVIVNAGDTGQTVGQEVACLLTG  
GGYAQYVAVPEGQLMPIPEGYSFVEAASIVEVACTVWSNIGMLAGLQKEDTFLIHGGAGG  
IGTFAIQMGKALGVTAVTAGSTEKLKTCCKNLGADILINYKEEDFAEVLKKNKADVILDII  
GAKYLSQNVKAMAKDAHMVVIGMQGGVKGELNLGHLAKRGTI SATALRGRDEADKARIV  
SSTVENIWPLLQSKEITPHIDHTLPLAEAAAALQKIQDGTITGKLVAV

>RXN00470 TRANSLATE of: rxn00470.seq check: 9539 from: 1 to: 1269  
MGESPEKVAFRVFPDGLVSQGHMIEDMSNTPAPYTPQAGQAVPLYPTFTRSRDGRVVA  
GVASGLAKHLNVSVFWVRALLIFAALLSGAGLFAYALIWIIFTRIEKKSGEASTSKRWVS  
WCLVLLAIGGAAASVMLSTGFAVGTLPVIGVGVGLLMVWLAYDRGVESGPNLLIIATGG  
VLMVAIVLIVMNWNTQDGFVMAVAVVLTIVGVAALGVPLWVRMWDQLGEERAEEKAAAA  
ERADIASRLHDSVLQTLALIQKRADDPAEVARLARGQERELRQWLFDSQDKTPQTTGTVF  
TALERACGEVEDIYALRIVPVTGTDEALTEKTQAAMAVREALVNVAKHAGVETADVYA  
EIMLGELNIFVRDRGAGFDPDNIPDGHGHLAESVQGRVERAGGKVRKSEIGEGTEVAIT  
MDV

>RXN00499 TRANSLATE of: rxn00499.seq check: 1415 from: 1 to: 1281  
VVGVVSTPARNLGSMTKTGLSLQLEEITLTLPLTEDVADERTIDVFARIATRVGGEDLPY  
LVFLQGGPGNEAPRPSLNPLNPNWLGVAALEEYRVVMLDQRGTRSTPVGNDILEKPTAEV  
VEYLSHLRADGIVRDAEALRKHLGVNQWNLGQSFGGFTTLHYLSRHADSLDNVFITGGL  
SAIDRPAEDVYANCYNRMRRNSEEFYRRFPQLRETFRGLVNRARAGEIVLPTGEVVSETR  
LRLSLGHLGSDNGWFDLYNLLELDPTSNAFVHDLAGLLPFGNRPNIYYVLHESYADGVV  
TNWAAERVLPEDFREDPTLLTGEHVFEWTDTPVSLKPWKDVALALAAQGEWPKLYDAKAL  
ENSQAKGAAAVYANDVFVPVDYSLETAQHLPGVQLFITSQHEHNGLRASSGAVLKHLFDL  
AHGREVR

>RXN00513 TRANSLATE of: rxn00513.seq check: 4398 from: 1 to: 921  
MAGLFSSAVAPTERRKALRAALAAPEIARMPGAFSPLAARAIQEAGFEGVYVSGAVVAAD  
LALPDIGLTTLTEVAHRSRQIARVTDLPVLVDADTGFGEPMSAARTVSELEDAGVAGCHL  
EDQVNPKRCGHLDGKEVVGTDIMVRRIAAAVNERRDEQFVICARTDAAGVEGIDSAIERA  
KAYADAGADMIFTEALYSPADFEKFRAAVDIPLLANMTEFGKTELLPAQLLEDIGYNAVI  
YPVTLRLRIAMGQVEQALGDIANTGIQTDWVDRMQHRSRLYELLRYNEYNAFDQQVFTYSA  
DSYKPIF

>RXN00531 TRANSLATE of: rxn00531.seq check: 3085 from: 1 to: 495  
MANYTVPGINENDAKQLIDGLQERLTDYNDLHLILKHVHWNVTGPNFIHAVHEMLDPQVDL  
VRGYADEVAERIFTLGGAPVGTPEGHVADRTPLQYERNAGNVQAHLTDLNRVYTQVLTGV  
RESMASAGPVPDVTEDIYISQAAELEKFQWFIRAHIVDVGNIQE

>RXN00549 TRANSLATE of: rxn00549.seq check: 5535 from: 1 to: 1674  
MVFMGAYIMVDVPEPEELVSPQVSQIYASDGETELARIVPEGNRQMVITDQVPDVKNA  
VVAADREFYTNPGFSITGYARAALGVITGDSSAGGGSTITQQYVKKAVVGDERSLIRKA  
KELVYSAKMANEWSKDEVLEAYLNTVYFGRNAYGVQAAAHAFDDKPVEELTAAEGAVLAA  
SIQLPSQLDPWTNPVEAETRWNVMDGLVEIGAISAEERAVATYPETTDPASNSAYTEAT  
GTNGLIKNQVMAELSELGITEDDVQTCGLQVTTTIDPKTQEGAVEAVQNQLDLLSENRA  
AVVSIDPSNGAVRAYYGGENATGWDFANAPLOTGSTFKIFGLAAALQQGIPLSQPYSSAP  
VTVGDAQIGNVGGSGCGSCSIEQALLHSYNTSFIRLQQDLENGSQDTADMAHALGIAKSL  
PTIPETLTENGETPYEGILGQYESRPLDMASAMATIANEGVWHRPHFVSKVETVSGEVL  
YEFEDGDGERRVSEKVALNLLKAMGPAAAYSNGNALADGQVSASKTGTTQLGDTGANKDA  
WMLGAAPQLATAVWVGTA

>RXN00550 TRANSLATE of: rxn00550.seq check: 1281 from: 1 to: 321  
 MYGSNSPATIWKQTMDNALENSPLETWDIAPALGYGNPPVPEYVWTPSPNIATNDPEGAT  
 EEAPVEDPNAVIDTPAVDPTAPAEETGNGQVEILPGLTIPGDLLGIG

>RXN00621 TRANSLATE of: rxn00621.seq check: 1431 from: 1 to: 783  
 MSERLNAPQAPIHPITRTHHGIDFVDNYEWLRDKESQETLDYLEAENAFKQETEQLATL  
 RDNIYEEIKSRVKETDMSIPVRAGKHWYYSRTEEGKSYGYSCRIPVTEGSDAWTPPVIPE  
 GEPAQGETIIMDANELAEGHEFFSMGASSVTTSGRYLAYSTDVTGEERFTLRKIDLETGE  
 LLPDTLTGIFYGATWVGEEYLFYQVRDDAWRPDTVWRHKVGTPVEEDVLVYHEPDERYST  
 WVGTTTRSEKVVHFWLRLQDHL

>RXN00622 TRANSLATE of: rxn00622.seq check: 2214 from: 1 to: 1416  
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 DGSDIWLVTNHAEGPNFSGWAGVDKLNSLDALAPLVAHKDDVRIEGVDTYRDFIILGYR  
 SGAIGQVAIMKLIDGTFGDFQQLFDEEIIYTVASGGNPEWDAPVIRLSYGSFTTPAQLFN  
 YWIESGERTLLKQEVLLGGYKPSDYVASRLWVTAKDGAQIPVSLVHRTDLDVSKPNPTLL  
 YGYGSYESSIDPGFSIARLSLMDRGMIFAIAHVRGGGEMGRGWYDNGKTTTKKNTFTDFI  
 DVADALIEQKISAPEMLVAEGGSAGGMLMGAIANMAGDRFKAIEANVPFVDPLTSMMLPE  
 LPLTVIEWDEWGDPLHDKDVYEMASYAPYENIEAKNYPNLAVTSLNDRVLYVEPAKW  
 VAQLRATATGGEFLKTEMVAGHGGVSGRYEKWRETAFEYGWLINQATGVTE

>RXN00639 TRANSLATE of: rxn00639.seq check: 1844 from: 1 to: 855  
 MTSAEQIVDPTAHDGSKATDKFKANRVSSDTSKERANAIYVDLLAAIAQVAHKHEVTYE  
 EYAVLKQWMIIDVGEYGEWPLWLDVFVEHEIEEINYNRHDTGTGKSGIEGPYYVENSPLK  
 WDAEMPMRDKDRACPLIFEGQVTDLDGNGLDGAELWHADEDGYYSQFAPGPIPEWNL  
 GTIVTDEEGRYKIKTLQAPYQIPHDPGTGWFIESYGGHPWRPAHLHLRVSHPGYRTITT  
 QLYFEGGEWVENDVATAVKPELVLPETGEDGNHVHYPFVLDKED

>RXN00641 TRANSLATE of: rxn00641.seq check: 1023 from: 1 to: 1491  
 MSTPVSNLASVQKTLDHAEEDRPEEGIVRVNRNIFTDPEIFELEMRHIFEGIWMDMAHES  
 QIPNGGDYFTTYIGCQRIMITRSKEGTLNGLINACSHRGAMLCRGKSDNRTSLTCTPHGW  
 PFCNGGALLKVKGEGAYPENFRITDGSVDVRRVPKLESYRGFLFGSLNDDVVSLEEHG  
 DTRTVIDMLVDQSPGLEVLGRSSTYTYDGNWKLQTENGADGYHVSSTHWNYAATTSSRG  
 TGESANETKAMDAGTWGKQGGGYFSYPYGHMLLWMMWGNPEDRPLFERRDEFKKEFGEEK  
 GEFMVGASRNLCLYPNVYLMQFSSQIRHIRPISVDQTEVTIYCIAPKGESAEARANRIR  
 QYEDFFNATGMATPDDLEEFRSCQKTYQASAFPWNMTGRGLGHQVQGPNEVAKGLGMNEV  
 LSSGARTEDGLYPIQHGFWEHLMQEAENVKQSIKEKELADDTASSLATVAAAKIREEAKA  
 AAKSDAGEPRRRRRTRG

>RXN00658 TRANSLATE of: rxn00658.seq check: 6023 from: 1 to: 693  
 VRHDEHYPAANLIAFDKGWSTLIAPQLEDPEAEFEFTAGFLTEYQDNLITAGMEHQALAS  
 GFPVGRRFKSDIALRRCDVTTTHIGHEHSADGHWRIYVFAGQATPQDSESALNKWAQWME  
 ESEDSPLNRFTEAGDRNAVFDIKATYQQHYHSFDLFDAPVFFPRVGPYKLQNLNVWT  
 ALDSQDIFESRGISRDGAIVVVRPDQYVAAVLPLEDTAALAEFFNGNLLP

>RXN00663 TRANSLATE of: rxn00663.seq check: 3662 from: 1 to: 1374  
 VTTTTYPDFLGNSSLQTDTEHWEMEGGAQEVSVTYVLDTSVLLSDPLSLTRFAEHDVVLPI  
 VVITELEAKRHHPLDGFARQALRMLDELREIHGDLKPLPIGDEGGHIHVELNHQNTGS  
 LPVGFRGLGDNDRILAVAKNLQEEGHNVVLVSKDLPRIKASASGIAAQEYRAALARDRG  
 YTGMTANITDDQLSELYDTGEVRIEELKLPVNHGFTLKSNSGSALGRMNSDKIIELVP  
 GDQQVFGISGRSAEQRVAILDLDNDDAVGIVSIGGPAGTGKSALALCAGLEAVMERRIQRK  
 IIVFRPLFAVGGQELGYLPGDQEEKMGPWAQAVFDLSSMVSQNIIDEALSRLIEVLPL  
 THIRGRSLHDAFVIVDEAQSLEARNVLLTMSRIGQNSRVVLTHDVAQRDNLRVGRYDGV  
 SVVEALKDHLELFGHITLQRSERSRIAEVLTVQVLDAPSL

>RXN00665 TRANSLATE of: rxn00665.seq check: 1137 from: 1 to: 501  
 MSSSTLLLASGQVTLAADYTLSTPSDGLVVLGFAMILTFMTLIMLGRITPMVAMLLV  
 PTIFGLIAGAGLGLGDMALDAIKDMAPTAALLMFAIMFFGIMIDVGLFDPLIRVITRVLH  
 DDPKVVIGTAVLAGVVS LDGSGSTTFIITTRDAAHLPAPWHEPCG

>RXN00675 TRANSLATE of: rxn00675.seq check: 9322 from: 1 to: 792  
 MGFRSKKKVIAAKTAAELDAMQAAGEIVGKALQAVRAEAKAGMSTWDLQIAEQVIRDA  
 AVPTFLGYQGFPASVCASVNEVIVHGIPSKETILEEGDLVSDCGATFDGWVGDSAWSFG  
 IGELDEDVQGLNLATEWVLMEGMKAMVPGNRLTDVSHALEVATRKAEKFGVALGIVDGY  
 GGHGIGRHMHEEPYLANEGKAGKGPVIEGQSVLAIEPMLTLGTEDSAVLEDDWTVVTLDG  
 SWASHWEHTVAATKGGPRILTPRY

>RXN00689 TRANSLATE of: rxn00689.seq check: 7633 from: 1 to: 1491  
 MNAATRRASLQLPYTHVDDFYINGSWVKAEGTQRNPVVDPAVGQEWGSVPEATASELDSA  
 VGAARTALKSWSALTGAERTGYLLKIATEIESRSEALALNTRENGSPISETRGAASNA  
 GIFRYFATLAPWLDGEDIRPFPAGSAESIVDKDPIGVCALIAPWNFPINLVVIKLA  
 AGCTVVIKPASTPLSIRFIIIEAIEAAGVPAGVVNLLTGSGRFGDALVRHPGVDKVAFTG  
 STPVGKKIAAACGELLRPVTELEGGKSSAILPDADMSVLSTRLIRSCMRNTGQTCYIST  
 RIIAPSSRYAEVVQTVASTIAAGRQGDPTDEETVFGPVASASQYSTVMSYIDSAREEGAR  
 VVAGGTRRSISLSEGLSEGEFIQPTVFADVTPDMRISREEIFGPVISILKYDDTNGVSEAI  
 ALANNTKFGGLGVFGADEEQALEVARQVDSGSGVINFFGSNHSAPFGGRHESGMGVEYG  
 IEGLSAYLTYKSIHRTI

>RXN00778 TRANSLATE of: rxn00778.seq check: 6349 from: 1 to: 1125  
 VNLTLKRSIALVGAVTAGSFALVACSDSNESDSTSSSAASTGSSDAASIEGLSGVTGQLV  
 AEGASSQQSAMDYFGIRYSEAVSGASLAYTPSGSGSGRTNFAAGQVAFGGSDSAMKDDQA  
 AEAEARCNNGNEAWHLFPFVIGPVAVAYNLPVVDTLNLDTNIIAQIFKGEITKWNDEAIASQ  
 NEGTDLPDQDISVLRYSEESGTSDFQKFLGASTDIWETEGQQFPTEVGSGAQGSNGVAS  
 EASNIEGAITYVEAGFANQSGLVANIDFGSGPVLENAESVGVALGALDFLTEGHNMVVD  
 TDAMFAMNEAGAYPLILTYEIVCSAGYDETRDQVKDFLTVALDSQDDQLEALGYIPVT  
 GEHYDRLVAAVEAIQ

>RXN00787 TRANSLATE of: rxn00787.seq check: 6866 from: 1 to: 1902  
 VSQPLSKRLSIRKALASAFIVALAFSLSPVAKAQANETPTMIVLDNSGSMATAQDAGGQTR  
 IDAAKQASTQLINDISDRDVLTYGGNTGETEADVEMGCQDVTILGGPSRGNADTLID  
 TINSLQPRGFTPIGKALTDAAELPEGGNIVLVSDGIANCTPPDVCEVAQELAQSGLNLV  
 INTIGLVNDPAARELECIAGVGGGTADASDAQSLTDALTRAASRQYNSYTSVTKIDG  
 ASEQSAAVEIDEDTELFLTDLPQESRFWKIPVEPGETISVSANTVTDPTVLTMGQGGIKL  
 EAQLHTEEPQYGLRGRCTRVSFDNFKPGLGVRGIQNASVASKEVGTNNCDTDAIYLEIS  
 RSGDYLNQDIPTEITIERFGKVDESTIGNVTEEHSSVDLTEAAASEAHPVTPGQWFTSA  
 ADLDPAGEKVSSIIVPGETHFYALPVDYGOELRAAVETTFDQIDSSALGTHLYIQAFSPN  
 RAEIELTNRDTSYADDNGLKTFGFFTPVSAANLFEKSSQGISLRSPWQGGTQYLAVTYLP  
 SGQDEDVSATDQLPTLEYELVAEAFGDPVDPVFASLTGATPSTSTPPSDVAEDEQISEA  
 TEEDSSSFPIVWIGLVIGLIIIGLIFALRRKN

>RXN00818 TRANSLATE of: rxn00818.seq check: 6962 from: 1 to: 840  
 VKHPDPAQKVEGTTATTPTKVAFFDLDKTIIAMSSTYAYGREFMNSGLISPVEALQLSL  
 AQATYMFAGHTSEQMDNTRDQLTAMIRGWEVQQVRSIAEETMHSVVTPTIYAEARELIEH  
 HQELGHDVIIISASVKELVEPIARELGVHKTVTTVLEAHDGMYTGEVLFYCKGDAKAQSI  
 LDLAENNYDLSLSFAYSDFSFTDLPMLAEAVGNPAAVNPDRALKKIALEQGWKILSFKNPE  
 PLFQMPSTRDVGIGTGVVAGIAAVTAGSIWWMKRARRGSA

>RXN00820 TRANSLATE of: rxn00820.seq check: 6937 from: 1 to: 363  
 VNTLADATDDQWIHTDPERAKDGPFGGAIAHGFLTLSMIIPFWGELLDVTGVTTKVNYG

LDKVRFTSPVKVGSRI RMGAVVREISEVKGNGLHLVADGTIEIEGQERP AVVATFLTRFY  
A

>RXN00866 TRANSLATE of: rxn00866.seq check: 4209 from: 1 to: 966  
MNDNRNRGRKVRTRKAGPPEAGQENHLDTVPVQAPDASSNQSAVKAETAGNDNRDAAQGAQ  
GSQDSQGSQNAQGSQNRRESGNNNRNRNRRGGRGRRGSGNANEGANNNSGNQNRQGGN  
RGNRGGGRRNVVKSMQGADLTQRLPEPPKAPANGLRIYALGGISEIGRNMVTFEYNNRLL  
IVDCGVLPSSGEPGVDLILPDFGPIEDHLHRVDALVVTHGHEDHIGAI PWLLKLRNDIP  
ILASRFTLALIAAKCKEHRQRPKLIEVNEQSNEDRGPFNIRFWAVNHSIPDCLGLAIKTP  
AGLVIHTGDIKLDQTPPDGRPT

>RXN00877 TRANSLATE of: rxn00877.seq check: 565 from: 1 to: 1665  
MTVEHLLKPSTLPYQLPDFAAIKVADFPFAPFELALAEHDAEITAIATNEDAPTWENTIEA  
LERAGLSLNRVAAVFFNLQGTDSPEMDEIAATIAPKLSAHSDAIFHNAALFARIEAVEA  
PADEESQRLLSHTKRAFRRRGAALNADGKARLSTINQRLSALSEQFGRNLLQDTRDLAVN  
FEESELAGFSEARISAAADYAAAVGTEGYVVPLELPTVQSEQAVLTESASRAKLYEASQK  
RGASLNKDVLLLETVRLRAERATLLGYDTHADYVIEEETADDVAAVRALLYDLAPAASANA  
KAEYKLSAEAEAEHGGQKVGAADWSFWEAKVRARDYALDETEL RNYFPLNQVLRDGVFFAA  
NRLYGITVEPRPDLRGYAEGVDVWEVLDSGSGIGLILTDY YGRPSKRGGAWMSSSFVDQS  
ELLGTPVNVVMGITKPTTGEALLSDEVTTIFHEFGHGLHGLLSKVRYPFSFGTSVPR  
DYVEFPSQINENWAFDPAVVRNYARHVDTGDIIPDSLLEAVEACGISDRVVEHVSTCPHL  
LSTCPVSPCPQRMPPH

>RXN00905 TRANSLATE of: rxn00905.seq check: 8965 from: 1 to: 801  
MTQFENAQVLKENIENQREQIFTQLKEIVSFNSVHSDPNLLEDYAGAKEWVKETLTNAGL  
TVSEFAAEDGTTNFIGTRKGSEGAPKVLLYSHFDVVPSPGLDLWDTNPFELTERDAGHGT  
RWYGRGAADCKGNLVMHLAALRAVEASGDTTLNLTYVVEGSEEMGGGALSALIKDKPELF  
DADVILIADSGNASVGTPTLTTLTTLRGGGQVTVTVDTLEGAVHSGQNGGAAPDAVAALVRV  
LDTLRDEHGRTVIDGCQHHRKLEGRAL

>RXN00948 TRANSLATE of: rxn00948.seq check: 5347 from: 1 to: 1119  
MANVVLVDRMEPLVSKLFTPIQIRDITIPNRVWMSPMCTYSAATGSGLPDHFHQAHYAAR  
AAGGVGLVMVEATGVNPVAPISPVDLGLWSDQIEPFSRVTAAIRAGGAVPAVQLAHAGR  
KASTDAPWNGGGYVGPETNGWETVGPSPLAFFPGLPAPRELTVSEIQEVVQQFAGAAVRAD  
QAGFDVVEIHAAGHYLLHNFLSPISNKR TDSYGGSLNRRARIVLEVIDAIRAVWPEEKPV  
FMRISTTDWVEENPQDDRESWTL SQRQLALWASEHGVDLIDASSGGLDIVPIPHDRDYQ  
TAKAADLHASTGVTVAAGRIDDAQT AHNLVDSGDVNAVFLGRPLLKDPSWANQAALALG  
AEPYVHQDYVL

>RXN00982 TRANSLATE of: rxn00982.seq check: 8201 from: 1 to: 1506  
MPTAAAQENIRWEECPQVDIASAQCGSIDVPMHYSDPSLGDISVGFVKVPAQGEKHGTI  
FGNSGGPGGDAYSFFGSQSMNWPEAMYQNYDLVAVQPRGMVGSTPVNCDNIAPGYDFLSL  
LTREGAFVKESCEIGTPGYTSSLTTDNTANDWERVRQALGDDKISIFGLSYGTYLGSVYA  
TRYPQHTDKVVLDSAMAPSLAWNGIMASQEQGYKNSLNDFFTWAENNDTYGLGTTPLAV  
YQNWSNKIVAETGTNPTVAPPPAQVGDVPPAFAWAGQAGADMMTATNPTSVQLQGLATQL  
LNPGSNQSLSPLLNVTRAYIPQPSTWMLAGAI SGQTPIPDVTDTGDDPYVIESINASVN  
MQRMVMCNENTVAPDPVAMARMAWTSMTGDFDIYSVKFSSGQACSGITPTSGRQPTDG  
SQLAVQPLLLQGTSDPQTPYWTHNELADAMNAHVTVNGPGHGQSIGGTNQAINDIVVDY  
LRTGHTDATWVEGNTPTPITAG

>RXN00983 TRANSLATE of: rxn00983.seq check: 4228 from: 1 to: 1476  
VTAGETTTMNVTLTNPFDAIFDRAVSLERPEGWQAEDVRVSIPSGESVTIPVQVTAPLV  
ADNGELPVEVSILDGADRYTGRNLNTVQGGQEPAPTSVKVSI PNLDKTYVAGEKISINFA  
VNNPFDVTNSVPSLGEENWMPANLRGFDPEQGT PNCRYKNLGANKSYDCTTTTTEYVSD  
LDVERGYVDIPTVWTF TNSAGETVWSKNVDVPRVELNGTQDAVTD AIVTVDPINPVHSNG

QSQTVEVQANVTSEGLPAGSKVAFYLDSSPIDTA AVDAEGHASISIDVDNIASEQPERT  
FEVRARLVVPEDAPRSIARDALARFTVLSEQVQNSLVIMNHPDVFS DGQTKTIVIAAKA  
TAHDGSPVAIGTLIAFRVNGIERDVVPTNAQGTAKLQLDLKPVNTEDEEYEVTVAEALDE  
LTAQTTFFKVLAGEEEEEPTSTEEQPSETEQPSEPEEEESTGVAGSSNGGSFVALLALLAALG  
GIVGAVLGLLKL

>RXN01014 TRANSLATE of: rxn01014.seq check: 9151 from: 1 to: 2601  
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VEEVRLDNVSIKDEALTLGKNGYDETFGIALKGLTPGAHTLRVTASIPYSRTGEGLHRMV  
DPADNEVYLYTQFETADAKRMFACFDQPDLKATYDLNIKTPKGWKIISNSEQQVSTQHTD  
YDTHISRVDYPLSTYLI AVCAGRYHEVCDVWKGT LTHHAETPADQPTELTVPLALYCRSS  
LAKDLDAVRLFTETKQGFWDYHRNFGVAYPFGKYDQIFVPEFNAGAMENAGAVTIRDEYV  
FASKATRYRYERRAETILHELAMWFGVLVTMQWDDLLWLNESFATWSAAISQAEETEYN  
TAWVTFANVEKSWAYQQDQLPSTHPVFS DGYDIETVDQNF DGITYAKGASVLKQLQAYVG  
REEFLAGVRRHFANHAWGNASFDDLGALEQSSGRDLS DWANQWLKTTGINTLGAKFTTD  
NGKYTSFSVTQTGAAPGAGELRTHRIAVGLYKLV DGS LNRYARVELDCSGASTSVEEIVG  
LEQADFLVLNDDDLTYALLDLDLDDSRNFVIDNIDKFS DMPRRTL VWSAAWEMTRAGQMK  
RDFIALVARGAAETEIAVLERILAQATSALKSYADPAWAEATGNDDLADAFLEGARSAE  
PDSDTQLAFIQALAKATLNDAAADYFRDILAGNVEGLTVDPDLRWWALTALIARGDIEAV  
EDAIAAELSRDNSSASFLASLRAGA AVNTEEVKAAAYKHVTAVDSGLSNLELRHKIEGLT  
FTGSSELLQAYNEQYFEILDDVWANFSGEMAQQIVLGLFPSWNVSEGLKRTDEFDGEH  
VAGIKRIVSESLDRTARALRNRAADAA

>RXN01046 TRANSLATE of: rxn01046.seq check: 5893 from: 1 to: 1779  
MIPFPGQPQQSAPNDETRFIDLNERHKDDPEALFRDDVIDQTLAILISKKNPNALLVGP  
AGTGKSRIAEDIARRLANDDVSIPDQLVGHRI LDVSI AELVAGAGVVGQLKKRILD LIKY  
ATDPSNKV IIFIDEIHQIAGDQSSHSGSQAQVAQILKPYLARGDLRVIGATTTQEARDFD  
HDPALKRRFSRVNVDEFDRDQTLTILHAARDGYLKHFNNAVTVSDDVLGYVYTYSQQFNP  
GNTAQPDAAALTFLDKALASLTMEKQRLINNHVIAPSLKFPVSRH IHN TARKLAFGSQVP  
ASINTDDARDKLETFLGQDHIIEPVLTAIKREQLGIFPRTKPLSWVFAGSSGVGKTEMAR  
ILSRAINGGDP I IINGPEYISPESITGLIGSSDGYIGSNSKRAKPLDPLISNPRQVIVLD  
EFEKSHPHFQQLFMAALDTGTMMAMANGTTLNFSQAI I IATTNAARDKIGRDSFGFDS DNS  
GVLGSAQAATDPRAQERLKSLSKDFLLNCSTVSRISLPSTALMQAPT VRFWTISTSVAV  
TPCCLATPHYAAQIPADIDS DTL DQLVETTFISDFGARPAARTIEDHIASLLM

>RXN01120 TRANSLATE of: rxn01120.seq check: 6283 from: 1 to: 1278  
MARMQESADLLKCSFCGKSQKQVKLIAGGAVYICDECIELCNEI IEEELGQAQHDEQER  
NELPKPSEISAFLD TYVIGQDPAKRILSVAVYNHYKRLRASETIGRRRNDEPETELVKS  
ILMLGPTGSGKTFLAQT LAKLLDVPFAIADATSLTEAGYVGEDVENILLKLLQAADFVDE  
RAQRGIIYIDEVDKISRKSENPSITRDVSGEGVQQA LLKILEGTVAAI PPQGRKHPNQD  
FIQLD TTNILFIVAGAFSGLEKVIADRNGKKGLGFGVEVSSKKEEANIVDIFKDVLPEDL  
VKFGLIPEFIGRLPVVATVSNLDQKSLVKVLTEPRNSLVKQYRRLFEMDDAVLTFTDDAL  
EEIANQALERKTGARGLRAIMEEILVPIMYDLPDRKDVGEVIINGAVARGEAEPEMLEAV  
AEEKTA

>RXN01145 TRANSLATE of: rxn01145.seq check: 748 from: 1 to: 1014  
MAIELLYDADADLSLIQGRKVAIVGYGSQGHASQNL RD SGVEVVIGLREGSKSAEKAKE  
AGFEVKTTAEAAAWADVIMLLAPDTSQAEIFTNDIEPNLNAGDALLFGHGLNIHFDLIK  
ADDIIVGMVAPKGPGLVRRQFVDGKGVPCLIAVDQDPTGTGAQAL TSYAAAIGGARAGV  
IPTTFEAEVTVDLFGEQAVLCGGTEELVKVGFEVLTEAGYEP EMAYFEVLHELKLIVDLM  
FEGGISNMNYSVSDTA EFGGYLSGPRVIDADTKSRMKDILT DIQDGTFTKR LIANVENG  
TELEGLRASYNNHPIEETGAKLRDLMSWVKVDARAETA

>RXN01152 TRANSLATE of: rxn01152.seq check: 1196 from: 1 to: 834  
MPYSGFPQAGDRVQLTDAKRRHFTIILEPGTTYHTRGQIAHDDIIGA DEGT VVHSTMG  
DYL CFRHLMVDHVL SMPRGA AVIYPKDSAQILVEGDIFPGARVLEAGAGSGALSMALLRA

VGEKGNVISYEIREDHLEYAVSNVEEYFGERPATWDPRLGDLKEVTVEDLGGPVDRIILD  
MLEPWEMLETCCKDLLIPGGVFMTYVATVPQLMKVMEGIREQKCFTEPRAWESLVRDWKVE  
GLATRPEHRMNAHTAFLVLTRRLADGVEPPRPQRKARR

>RXN01166 TRANSLATE of: rxn01166.seq check: 5407 from: 1 to: 1305  
MGYTNLNDTRVLRAAGSCDAWRTMSPLVQQGSEAVFRRIMGLSRRPDRKPGFDDVPFHGA  
AVRVPGLKHGTLVNAAPLKVLGARGEPNPASSYRFEYITGDSAGRAITATGAVLFSTRPW  
TTGPRPAIAMAPSTQGVQHCPSHTCAIGLNAFYDKPFDALIAELPVILWFLAHLGLDV  
VFIDYPRDPATGVQYYCDSIAAAKSLDLAVLASRQLGLSPEAPLGLWGFSQGGGATGWAA  
QLQDYAPDVRPKAAVVGAPPVDLFRVLDTVDGGLLTGVIAIAGLAVNSSEMFEIIMSV  
LNERGVSDVLKNITSCAGGSLASGYSSSRGWTHQGTPLADILDDLPLVVAEFGKQLGR  
VAPEIPVLLWGSKNDDVIPIDPIRELRDSWADKGTPLTWHEAQAPRVPGRTGLNHFGPYF  
RNLEKYSGLIDHLV

>RXN01181 TRANSLATE of: rxn01181.seq check: 3409 from: 1 to: 957  
SVLLARDLVNTPSSHLYPESYSVIASNEASKHGLQTTILDEKQLADQGGGILAVNGSS  
RKPRLLRIDWKPRKAKKSIALVKGKITFDGTGGISIKPGASMENMISDMGGSASVLATIIA  
AARLNLSINVFAFLPMAENMPSGDAFRPGDVITHFGGITSEILNTDAEGRILADAIAYA  
SEDKPDYLIDAATLTGAQLVALGLRTSGVMGTDEFRDSVAKTGREVGEQAWAMPLPEELD  
EQVKSPVADLRNVNTNSRFAGMSAAGRYLQEFVGADIEWAHVADIAGPAYNTAGEFGYTPKR  
ATGQPVRTFVQVLKDLSES

>RXN01226 TRANSLATE of: rxn01226.seq check: 8697 from: 1 to: 540  
MGDVNNSPLLVLVGLGNPGPKYVGTNRHIGFEVAEELVSRSGFSVHKRSNTDIAQLPGL  
IVAKPRSFMNLSGTPIRALCDFFKISPANVIVVHDELELDFGSKLRQGGGDHGHNLKS  
TSKSLGTDYWKLSMGIGRPPGRMDPASFVLKPFQELADIPMAADAADLVEKHLQQG

>RXN01267 TRANSLATE of: rxn01267.seq check: 8891 from: 1 to: 1314  
MYAEINGGFIPEGTVRVSGAKNSATRLLAAALLTDEVVHLGNFPTKLVDVEHKIRFIEEL  
GGKVHVDHDEQILVVDADKDLAAREMTTDELNIPIRTTYLLAAQIGRGEIARVPFPGGCA  
IGGGPAGGRGYDLHLMVWEQLGCKILEKDDHIEVTAPQGGFIGGVIDFPFISTVGGTENALL  
CASIASGDTKIANAYITPEITDLIELLRMGAEITVYGTSTRIVHKGRAGLLQAYMDVMP  
DRIEALTWIVYGIISGGIRITVEGVFSSMEVPFIHLEKAGVDLFRNSSSVYITPECLPSG  
SVQPFELACGTHPGVISDMQALFVLLGLKGAGTSRVYDYRPERIAFVEELTNLVSGDKL  
SAEAGKITIQQDATFRPGYANSTDLRGSMVLAALCADGKSTINNVHMLRGYNELDKK  
LRLLGADLTIREGEVPSP

>RXN01277 TRANSLATE of: rxn01277.seq check: 992 from: 1 to: 2004  
MTDYTFLEDIDTPEALAWAEKWSGESVEKLKSPAKDALEARLLAALDTRDRIAYVSRGE  
KLYNFWRDAQHPRGVWRTTTLESYESDQPEWDVLIDVDALAEDEGENWVWKGAVVRSPF  
DRALVKFSRGADATVIREFDLATAAFVDDSPFELKEAKSDVTWVDLDTLLVGTDTGEGS  
LTDGYPARVLTWKRGTPLAQELFFEGSRQDVATHAWRDSTPGFERTFVSRSLDFYNSE  
TSLETEGGLVKLDVPTDCDVIVKKQWIFVSPRTDFAGIPAGGLGVLLLKEFLEGGGRDFQP  
VFTPTTESTSLQGLATTKNFLVLTLLNNVSTEIVTVPLNDPTTEHEHIDLPEHVTAAHVAT  
SPLDGDEIWWQAASFTEAPTLLRAELPGAELAVKKAPLQFENAGQETRQHWATSADGTKI  
PYFITGAFEEEPQNTLVHAYGGFEVSLTPSHSPTRGIAWLEKGYFVEANLRGGGEGFGPE  
WHSQATKLNRMKVWEDHRAVLADLVERGYATPEQIAIRGGSNGGLTSGALTQYPEAFGA  
AVVQVPLADMLRYHTWSAGASWMAEYGNPDDPEERAVIEQYSPVQAVVGVEKRIYPPALV  
TTSTRDDRVRHFAHARLFAQALLDAGQAVDYENTEGGHAGAADNKQTAFVESLIYTWIEK  
TLDQQGSI

>RXN01302 TRANSLATE of: rxn01302.seq check: 612 from: 1 to: 453  
MTTTTSSGKSSEKINPLFKLGSFLRGTGSEGQIFLQGGQADVFYRNRWAFDKVRS  
THGVNCTGSCSWKVYVKDGVITWESQAVDYPTTGADMPDNEPRGCPRGASFWSYTYSPTR



IRYPYIGGVLVDMSAKPRNAWAIRCWRGATL

>RXN01308 TRANSLATE of: rxn01308.seq check: 3036 from: 1 to: 2403  
 VLAWRDIVETPEKRKAYVSQRGKGLIRVQYEEAMEIAAAAHVYTIRQYGPDRIHGFTVI  
 PAMSQVSYGATRFLQMIGGVALSFYDWYADLPPASPQTFGDQTDVPESGDWYNSSYLM  
 WGSNIPVTRTPDSHFMEARYKGTKVWVSPDFADSTKFADEWARIHPGTDGALAFAMGH  
 VILKEFHVDKKTPEFMDYMRKYTDSFPLVELDEHGDGTYTPGKFLTADRAADISPALAAT  
 PNATHRLLVLQKDGSSVDPGGTVADRWGEEGMGKWNLRDLGVDPVMTIADVQTDTETAEV  
 LFPRFDLPATATQEGPIGAGTISRGVPTITLNGRKYTTVFDVLLAHYGVNREELNLPGEW  
 PKDFQDPVMGTPAWQEELTGVPANQAIRLGREFAQNADDSKGRSQIIMGAGVNHYFHADS  
 IYRTFLALTSMCGTQGVNGGWAHYVGQEKLRPMNGWAQYAFATDWQRPPRQMITTGFY  
 LTDDQWRYDNTRANRLASPLANRGTVGDKMTADTLVESMKRGWMPSPQFNRNPLILSQE  
 AEEKGVSVSDHIVQQLTDGDLQFACEDPDAPENWPRILLNWRTNLMGSSAKGTEFFLRHM  
 LGVSDASAEENAPEDRPSSIVWRDEAPEGKLDLMLTTDFRNTSTTLVSDIVLPAATWYE  
 KHDLSSTDMHPFIHSFNAAINPPWETRDTWEVFHDLTKEFSSQAATWLGTQTDVITAPIA  
 HDSPDELNMPGGIVPDIDEVGLIPGKTMAKIIPVERDYSKVYEKWTGLGPLTAKAGTGTH  
 GTAFNVTKQTEELALINGTSI

>RXN01309 TRANSLATE of: rxn01309.seq check: 2947 from: 1 to: 801  
 IADHEGTHINWDMVKERSAEVITSPEWTGSKKDGRRYTAFSINIEYDKPWHTLSGRMHYY  
 LDHDFIDYGEQLPIFRPPLDKIHINGEVGPGQSVTGTGDEPEVTVRYLTTHNKWSIHSQ  
 YYDNLHVLSSIRGGQVIWMSNKDAEKLGIADNDWIEAYNRNGVVSARAIVSHRIPEGTVF  
 MNHAQERTAGTPLNEKSGRRGGTHNSLTRIMIKPVHVAGGYGHLTYGFNYIGQPEITAMR  
 SPEFVAAPRRCTNEGHSRNDHEL

>RXN01386 TRANSLATE of: rxn01386.seq check: 2161 from: 1 to: 930  
 MWEHGNARALLPLDIRTIDDRPMQASETNLHLPSMRMASVFGTSQFVERSESFIENPTG  
 VVAIFFATEGEAVFFHRGGHVALRPGQAIIVYDADRPFLRGFNRRFRELVLTIKQRYLEI  
 VGSKGPELPAIFEGATGTANEQALARLVQESLHRIESGEPKHIDSSGPLGKPNWSDIEHE  
 AHGLIRNVLGDATSSEEGELISAAQRFIDINISESDLQASRIAAVGISERQLSRIFSDSG  
 QTIGRYVLNTRLDFAKEALSTPERDKVSVSEIGKRFGFASPSHFSRTFRERFEMTPLQWR  
 KESQRQSFQE

>RXN01461 TRANSLATE of: rxn01461.seq check: 3776 from: 1 to: 612  
 MIDTGKNGEFRIEQSNIIDQNEAEFGITPSQTVGPYVHIGLTLEGAEHLVEPGSEGAVSF  
 TVSATDGNQDPIADAMFELWQADPEGIHNSDLDPNRTAPATADGFRGLGRAMANAQGEAT  
 FTTLVPGAFADAPHFVKGVFARGMLERLYTRAYLPDADLSTDPVLAVVPADRRDLLVAQ  
 KTDDGFRFDITVQAEDETNETPFFGL

>RXN01466 TRANSLATE of: rxn01466.seq check: 3249 from: 1 to: 960  
 MTPNGRRQLLLERGAAFSKNRTPGLKHVDRHTIVDSGLSIHTYMGHAENATATVVFH  
 GFTLAAEVYMQVDYLQTFYPNIXVLIDARGHGATGQIRPELCTIEGTANDVLAAIHEH  
 APTGPLILVGHSLGGLTALNLVKRADHSLRKRIVGMVLVATSIESLSLQGLPQVLASPLA  
 DNKNAVEAAPNDAQKFRQYATTFAPTALATAVFQRTNDEVIDFHAAMIHETPLDTFVG  
 FFDDLQEHDELDAAPALEGLKGYVLAGELDVTPISQADRICEVWPGARLQIAEGAGHML  
 PLEAPGILNNAIGNILDGLG

>RXN01499 TRANSLATE of: rxn01499.seq check: 1314 from: 1 to: 3822  
 LWDVLESVASTYPEAAAIDGQVLTYAELMEEVTALADSIHAQQIRRGDRIGIRMPSGTR  
 DLYIAIALATLAAGAAVYPVDADDPEERAEMVFGEANALFDTAGFHMLRPTAGGDTRRP  
 RLDDTAWIIFTSGSTGPKGVAVSHRSAAAFVDAEAQMFLVDHPSGPLGPEDRVLAGLSV  
 AFDASCEEMWLAWGHGACLPAPRSLVRSGMDLGPWLIRRDISVSVSTVPTLAGLWPAEAL  
 SQVRLLVVGGEACSELVERLSTPDREVWNTYGPTEATVVACGTQLYAGQPVGIGLPLAG  
 WDLVVDVDDAGEVPGVIGVGLARYLDPEKDREKYAPLKSXGWTRAYRSGDHVR  
 LEEDGLYFVGRVDDQVKIGRRRIELGEVDANVAALSNVRSSAVVVQTTGADQKVLVAVS

LEDAAAGFDHNVATARLTETMPAALVPRIHVMDLPTTSGKVDKKSLLPWPLPGTVVEAN  
 DLSATEAWIAQEWVDILGTSVSSKDAFFSLGGTSLAAATLVGRVRAKVPTAAVRDLYDH  
 PRLEKFAERVEAIAADTGISLEAPNQVEERVVKPVSFGTRVMQTLIQIPIMTLQAAQWIA  
 WLLLGNNIMAALDFDWAVHVSWWLVIGMILVFATPIGRPLPIGGWGARIITRGITPGSYPR  
 GGSTHLRIWSAERLADASGRNISGATWVNYFARSLGVKMGKVDLHSLPPTITGLLTGN  
 NVSIEQEVDLRGYWLDDGILRVGTIEVHDNARIGARSTLLPGTVVGTGAHLLPGSTVTGD  
 KTIKPGSRWAGSPAQKVGRAKHRFPTSHPPRRSRWVPVFGATSIVLSLLPLQALAIGAAI  
 TLWLATISPLPLIWGVLVFATVGALAAFFAYTVTIWVLVRLIQIGIKGGTAPVRSRLGWQ  
 VWAVQRLMDDARTYLFPLYASQLTPLWFRSLGAKIGKDVEISTAVMVPKLADIREGAFLA  
 DDTLIGGYELGNWLLSGETRVGKRSFIGNSGIAGPERKLAKNSLVAVLSSTPKKAKANS  
 NWWGSPPERMRRVTVEVDEGEAKTYSFGFVGKVFARGAVETARLLAPITSGVLAALSLLLM  
 QYLLTEFNMWITWLLGGLILMTVGVLAMGITVVMKWVCVGKHKPSEHPLFSRFVWLNELQ  
 DAFVESVAGPWFLVPLNLTGALNAGMSALGAHIGRGAWIESYWLPELTDLCYIGKGATVGP  
 GVVVQTHLFQDRVMSLDTVTVDAGATLADHSVALPASLIDASATIGPGSLVMRGDKVPAH  
 TRWQGNPIEPWSNS

>RXN01555 TRANSLATE of: rxn01555.seq check: 3558 from: 1 to: 960  
 VNKGVLVAGGFSQNPRLMKYMPPTPQFSRTNESATGDTMALAAKVGARLGDDNGENA  
 LWFPSISIGTRADGSTAVYPHIWDRGRGLVIAVNAAGERFVDESVSYHRFVRAMYENKTT  
 PTVSAWLIVDSHTLAKYGLGMITMPHLPKLALQKYIDSGYLHAGSSSDELARSIGVDARG  
 LEQTVKRYNTFAKTGIDEDFHKGELLEFGQAAGDPDNKPNPNVGPIKKGPFYAIAVVPPL  
 ATAFGISINPNGQVSEDEGEPIIGLYSAGNDAQSVMASEYPGAGSQVGSMTFGWIAAQH  
 AVGKAGKSGGAKAGYAASSK

>RXN01608 TRANSLATE of: rxn01608.seq check: 9638 from: 1 to: 1839  
 MALCMTVAFAGGSLTACTPRPDADPIAEFFLQAWASQDFDTIADITDQADLATEMLSTS  
 FDGLQADSVELTLDSDVSRDTIATANFSVVKLPDRDREVSYSMSMTLTKMRNEWTVRWEF  
 SLVHPKLGANQHLELRAIEAQANVISSDGAFLAPGSIYRVLVDPASAGDADVVKRVAD  
 YLNEAHATDENVTLDVEDIMSNLGDSTYSLTTVDANLGARMEQDLGIPGLTFNEEASM  
 VATDPGFAPDIVSRVARIVEDELEGSNGWRASIVTSNGAVIDDIAYDAPELAPSVRISLD  
 HNVQRAAEEAVDLRAEMKAMMVMPSTGEILAVAQTDEADKDGVALMGQYPPGSTFKI  
 ITAAAGLAHEGLTPDSIVPCPGTMNIYGRIVTNYSFSLGNTSLDDAFANSCNTTFADIF  
 HHLEPGQLKNVAKQFGLGIDYQIPGLDGMTGSVPEGDIVLDRTESGYGQGLDLASPFMA  
 LVASTAATGSVPTPTLISGHETVASEEVLALDPEVLANVQRMMSVVDGTARGMRQTGG  
 QIYAKTGEAEINEGSHAWFTGYREDDIAFATLVVLGGGSEAAAVTDQFFVKLDELRAAG  
 EVAVSEAEQPVG

>RXN01619 TRANSLATE of: rxn01619.seq check: 4967 from: 1 to: 975  
 MRAITHNTFGDPADVLQITEKEIPTPGPGQVRIQVTLATIHNDLWTVKGSYGFPDLPA  
 AAGTEAVGIVDALGEGVEGLQVGQVSGTSFGIWAAYALVDASGLIPVPEQLSDESAAQ  
 LVAMPFSAISLLDFLDMKPGEWLIQNSANGAVGRMLAQLAESRGIHVVLVRRDAGVQEL  
 AAQNISGVSTETPGWEKQVEDITGGASIAVALDSVGGSSAADLVKLLGEGGTLVSGAM  
 GNPIMEIPSGPVIFKHITVKGFWSKVSREMPAEKKTQLFGELIARILDGTLTLPVDSTF  
 DAADIVSAVRASSEPRAGKVLIRF

>RXN01653 TRANSLATE of: rxn01653.seq check: 1458 from: 1 to: 1461  
 MATAENTTQENRKILFNAFDMNCVAHQSPGLWTHPKDKARDYNTLDYVWHLAKTLEKGLF  
 DGLFIADVLTGYDVYSSNEAALSSGAQVPVNDPILLVSAMAYATKNLGFGITAGTAYEH  
 PYPFARRLATLDHLTNGRVGWNVTGYLPSAAQNMGDTDQLPHDERYDKADEYLEVIYKL  
 LEGSWEDDAVQNNSTSVFTDSSKVHAINHHGKYFDVPGIAITEPSVQRTPIYQAGASP  
 RGLKFAGENAEAVFINSSTVEAITKTVAKIRAAVAAGRDPHAVKIFAMQTIITGETEAD  
 AQAKLEEYSRYIDPVGGTLMSGWTGADLSQYDLDEPITNIESNAIQSTAATISNGTGEG  
 AWTVRKLGEATGIGGFGPVLVGSGANVAELARIQDLSDVDGFNLAYAITPGTFEDVDF  
 VVPELQKLSRYKTEYAPGSLRNKLLGKGDRLDDTHRGASYRLGARNSTATIDLSSISAQL  
 VSQGAHS

>RXN01716 TRANSLATE of: rxn01716.seq check: 2732 from: 1 to: 486  
 EVTPEGFKETRENTIVRLGKGV DATGQLDPEAIERTRVALENYVELMETHGVEAVRMVA  
 TSATRDASNREFFSMTRQLLSKIRPGYQAEVISGEEEEALLSFRGAIVDLPEDQGPFCVI  
 DLGGGSTEFIVGTYDGEILGSHSTQMGCVRLTERIMRSDPPD

>RXN01842 TRANSLATE of: rxn01842.seq check: 4367 from: 1 to: 918  
 MSKVYVSNEYGGPENQELITRNTPQPGPGELGVKVHAAGVNP LDWKVRSVGAGTPRELPA  
 PLGEEASGIVTAVGDGVEGFAVGDPVLGLVAPGVGGYAEDTLLVAESTVLKPEEISFTDA  
 AAIPVAGASAYAGTHQVELEPGQSLLINGAGGGVGLMAAQIGRVHKFQVVGVDHEDKREL  
 IESTGAI FVATGDAVAEQVRALLPDGVDVVF DLVGGEALRVVAPLAKNPAHVISAADAAT  
 VLGELGGQVLRRTPEMVGQITGVVQYGLVDPKVDTTYPLEQAGKALAHVEQGHARGKIVLE  
 LITSQD

>RXN01849 TRANSLATE of: rxn01849.seq check: 9896 from: 1 to: 1101  
 MASQQIRYPFSAVVGQDELRLALILTAISPRIGGVVIRGEKGTAKTTTVRAFAGLLGDAP  
 LVNLP LGSTEDRVVGS LNMETVLT TGRAEYQPGLLAQADGGVLYVDEVNLLADHLVDALL  
 DAAASGRVSIERD GISHSSPANFVLVGT MNPEEGELRPQLLDRFGLAVDVAASTNPEVRV  
 EIIRRLDFENAPEQFMAKWAEQDADTSNRILAAKDLLPGVELPDLILS QIAWLCA RIEV  
 DGMRADLVI TRTALAHAAWAGRTVVTEEDVEIAARLALPHRRRRNPFDAPEMEERKLQET  
 LQEARDFFKDNE DKGPAAKITDEETGAEAFDTDNPTTEEDGLQGTAKAQT TGKVG TAG  
 SGDPFRS

>RXN01868 TRANSLATE of: rxn01868.seq check: 1336 from: 1 to: 1926  
 MKDLYREFVNGWLWDTHIIPDDRAVDGTFHKL RDDAEEDVHEIVKEDTGRAGTLYASFMDT  
 DAINAAGVAPLDADLNRLSVANSSFFAAALGELDREGVGAPVGFVWEKDSSSNESVAYVI  
 QSGGLGLPDEAYYREEAHAETLAAYKEHVERMLGYLDNSRLFGLSAASAAARIVALETEIA  
 AGHWDVVKTRDAVATYNPTL GALPPKVRTLSSAGLPDQRLVSMMP SYLDHLNGLLVDD  
 RLPDWQLWATWHILRSRAGLLTEEISQANFDYF GTKLSGATEQKDRWKRAVGLAERMVGE  
 EIGQRFVERHFPASSKEHMLELDVYLVAAYRDRISNLEWMT PATRERALEKL GKFNAKIG  
 YPDKWRSYEGLEFGSDLVDNSRKGS AFLHDYELGKIGKPAD RDEWVTPQT VNAFYNPVV  
 NDITFPAAILRAPFFDPEAEAAENFGAIGAVIGHEIGHGFDDQGSQYDGDGNLSWWTDE  
 DRSAFEQLTSRLVTQFSGLVPAVLTSE GIDTDGVNGEFTLGENIGDLGGLGI AVVAYE KY  
 LADRGQTFTSPVQKFEAEGAEGLAEQEENGLQRLFLSWARVWR TKIRPQMAVQYLAID  
 PHSPAEFRCNVIAGNVAEFYEA FVDPEDAPVYIKPEERLAIW

>RXN01885 TRANSLATE of: rxn01885.seq check: 4597 from: 1 to: 801  
 MTTKPIIPESTHSAERAGGHWILARLGKKVLRPGGRETTQF LLENLSLTGATVVEFAPGL  
 GVTARDILGKGPARYIGVDS DADACANVRAILPAGPHEVRNTNATDTGLES DSFDV VIGE  
 AMLTMQTDKHKLELMREAA RILKPGGLYGIHEL SLVPDNVSTAVKEDIAKALARS IKVNA  
 RPITVPEWAALAREAGFDVINIRQADMALLSLKRNLKDEGLKGVFTIVRNVISQPD LRKR  
 VLGMRKTFTEHKDHLGAVGIILQKRAQ

>RXN01923 TRANSLATE of: rxn01923.seq check: 3715 from: 1 to: 750  
 MSALIKGSGPHHVVLNGWFGHAAGWGA FADYLDLGNYTWHFWDYRGYGNRKDDAGEFTL  
 EEISADIVAYIDSIEAEKVSILGHSMGGVFMQKVLADSATPIASLVGISAVAAAGTPFDE  
 DSRKLFTSAGHNPD SRRAIIDFTSGSRQPAAWLDDL TDSAVQNSTPEAVEKYFFAWADCN  
 FAADLGTQDLPVDILTGDLP AVTKTAVESA FGPIYQNL TVEELHDVGHYAI FEHPLGLA  
 ARVLRFLDAV

>RXN01963 TRANSLATE of: rxn01963.seq check: 1780 from: 1 to: 684  
 MKNRKKIMSTLT TVCAVLGIVAAHPFHASAVIGGSVPSTDSVANAVAKIGPGALNC SGVM  
 ISPSWALTARHCVD DINILGDIDTITPITPGIHRNEGNYMGEVYRAPSGDLALININGVH  
 KG TIAQLPTQEYPLGTAAQSVGFGGGGVNIRTAESVN MILTDIYSVRSGKFHHGVGRSHY  
 LLFDYDSAETGRIHKGDSGGPIFIGDEVV GIMSHGTINKNDGSFDDDES

>RXN01974 TRANSLATE of: rxn01974.seq check: 7604 from: 1 to: 1785  
 MTQVVAGTLVGESINREIDEDKYPYLSSYAAPVAVPVREIIGREEEVNKIMAALMRPEIS  
 NVMLVGPAGSGKTTLVQQALVKDPERNYIEVDVAKMVADLSTPAQMAARIKGVFEDAIAY  
 RKHEGHELVLVDFEFHQIVQLSNAAVEAIKPILAMSGVLGVRVIAATTLEEFHEHIRPNQ  
 ALTERLQEIRLTPTDQKTTVAILRGMADRYGVSDQFYDDHVFEQIYSTTERFMPSSVQPR  
 KSIRVLDAMVGWHRRLSGKPMMDLLGDVLHDAIGVDIAFKVDGTSIKDKLDEKVMASLSA  
 TTVVARRLQLVVADLHDKSRPLSNFLFTGPTGVGKTELVKQLARVLFGDDTGRILIRFDM  
 EFALESSLDLFRSELTRRVADQGNIAIVLLDEVEKADRAIARLLLQVLDDGRLSDDYNREV  
 SFLNTYIVMTTANAGSEIFETISNYATDDTGDGRAIKDFVKNIHTSIKNKGFPPELLGRVD  
 EIVPFQPLSETTQDRIISKKLQDVATEVYERHGVKLHCSQKVMFLLVDQVEESAESGGA  
 RGAVRSLQREVVEVATFINTYPEVRDIYVDVDGQMRNKTNRVSTARVVIKRV

>RXN01993 TRANSLATE of: rxn01993.seq check: 8105 from: 1 to: 1128  
 MTLSEKLTITAKILPHPLNAWYVAAWDYEVTSKKPMARTIANKPLALYRTKDGRAVALA  
 DACWHR LAPLSKGKLVGTGDIQCPYHGLEYSAGRCMKMPAQETLNPSAAVNSYPVVEAH  
 RFVWVWLGDP TADPTQVPDMHQM SHPEWAGDGRTISADCNYQLVLDNLMDLTHEEFVHS  
 SSIGQDELSESEFVVTHTEDSVTVTRWMHDIDAPPFWQKNMNDKFPFGFEGKVDRWQIIHY  
 YYPSTICIDVGVAAGTGAQEGDRSQGVNGYVMNTITPDSRSSHIFWAFMRNYRLESQT  
 ITTQLRDGVSGVFKEDDMLTAQQDAIDANTDIEFYSLNIDAGGMWVRRILEEALSKEGR  
 LDIPPTTFPRATPKPEA

>RXN01997 TRANSLATE of: rxn01997.seq check: 5274 from: 1 to: 486  
 MTINEKIASAFNNQVTAELEASMVYLQLSYVLDLGLTGMRDWMKAQSKEELEHAQKFAQ  
 HLLDRDYTPQIGDIAPPKLDVTSIAIEAFEASLAHEQKISGLIRELAAIQDAEKDYDSRAL  
 IDWFLNEQIEEEATVGEIIDRLRIAGDSGSGILRIDGELGSR

>RXN02001 TRANSLATE of: rxn02001.seq check: 4280 from: 1 to: 1158  
 MPVINSIASFSDEMTRWRRHLHQNPESFDCVETAAAFVAEQLRSFGVDEIHTGIAKTGII  
 ALIHGREAGPVVGLRADMDALPLTEITGV DYASTTPGKM HACGHDGHTTMLLGA AKYLAE  
 TRNFAGTVALIFQPAEENG GAGVMVDEGVLD RFAIAEVYALHNQ PGLPLGHFMTTAGPI  
 MAAVDTFDINITGRGGHGAKPHQTRDPIVA AVGIVQAFQTIVSRNHN PVEDLVSVTQIH  
 TGSADNII PETAYINGTVRTFNKDVQAMVITRMEEIVAGQAAAYGVEATLTYNRNPATI  
 NDAAKAAIAAEVAGEVGLGVNPN GSRGMGAEDFSYFLEKRP GAYL FVGNGDSAGLHNPAY  
 NFNDEAAPYGASFLARMAERPLPLKG

>RXN02053 TRANSLATE of: rxn02053.seq check: 1600 from: 1 to: 579  
 MSLSVVEAITNRRATRKYTDEAPTPELIDKIVDLALEAPSAFNAQQREIVVITDPAQKQK  
 LYEASHQKQFLTAPVTFI AVARVENEPEDLEEILGTERAERVAGFINGRSIQQAREATLR  
 DASLAA AFLILAAQA EGLSTSPTTGWDEEKVKEAIGLGGREDRAIALVIATGFPNEQPEH  
 PGR LQNRRIDNSY

>RXN02146 TRANSLATE of: rxn02146.seq check: 3577 from: 1 to: 627  
 VGKHRNNSNATRKAVAASAV ALGATAA IASPAQAAEVVPGTGISVDIAGIETTPGLNN  
 VPGIDQWIPSLSSQAAPTAYAAVIDAPAAQAAPAASTGQAIVDAARTKIGSPYGWGATGP  
 NAFDCSGLTSWAYSQVGKSI PRTSQAQAAQGT PVAYS DLQAGDIVAFYSGATHVGIYSGH  
 GTVIHALNSSTPLSEHSLDYMPFHS AVRF

>RXN02274 TRANSLATE of: rxn02274.seq check: 3347 from: 1 to: 1710  
 MSFEISRKQYTDLYGPTVGD SVRLADTELFLC VEKDYAAIGEEVAFGGGKVIRDMGMQNG  
 TLVRDVIDPDTVITNVIVLDYTG VYKADVALRDGKIFRIGKAGNPVMENVDIVIGVATD  
 IIAGEGKILTAGGIDTHVHFLGTDQVNTALASGITTMIGGGTGPSQASMATTVT PGQWNT  
 NMMLSAFEGMPMNF GILGKGHGSSKSPLAEQVRAGAIGLKI HEDWGATPSSINTALEVAD  
 DMDISQVALHSDTLNAGFVEDTIEA IAGRVIHTFHTEGAGGGHAPDLIRVAALPNVLPAS  
 TNPTLPYTRNTVEEHLDMMVVAHHLNPDIPEDVAFADSRIRAETIAAEDVLHDMGIFSIT

SSDSQAMGRVGETITRTWQVADHMKRTRGSLTGDAFYNDNNRLRRFIKYTINPAIAHGV  
DYVVRSEEGKFADLVLDPKFFGVKPDLVKGGMLMVNSLMGDSNGSIPTPQPRTLRNTW  
GAFGQAVSRSSITFLSQDAIDANVPDLLNLRKQIRGVRGVRNLTNRDMKLNAMPEDIRVD  
PETYQVFNGLITSKPAETVPMARRYFLF

>RXN02334 TRANSLATE of: rxn02334.seq check: 4801 from: 1 to: 723  
VKDLNDPLTRDFIDGEAFAELMNRKGIARDDTVVVGDKSNWAAFTLWVFELFGHSDVR  
LLNGGRDAWMAEERDTSYVVPPEYPSANYPVVERVDENQRAFAEVLGSLTQSGGMTLV DV  
RTPSEFSGLDDEHGNPTSNTGVLRRGGHIPGAINLDWSDAVLPNGNFRTRAELDKLYADLNP  
ADDTVVYCVQVGDRAAHTWFLVKYLLGFNNVRNYDGSWAEGWGMVRMPIETGENTKNNVSV  
S

>RXN02478 TRANSLATE of: rxn02478.seq check: 2398 from: 1 to: 1215  
MRTSLIARGLYRIPALVWDQGLTLFDARLSVDDLPAIDVVSARSSDGITWTTPEPAIV  
ETEHARGVDVCLVTGDLFCFHGLSNLAGFFEDPTDLEPRLARRDVSGWTSISMAYFADVD  
AAFASSGTGLVLADGRWIQSFVVRGREISLRILRSDDGHITDIAGGNESAMTQLPSGRIV  
LHSGRGVGHRLSSVSDDFGETFTPLEPVPPELIDPGCNGHVIFYWKAAGMLAATHLADPDLRR  
HLVVDLSSDEGATWAHRTIEREEAAYSTAAEMPNGDVAVVWEAEGTRAIKCTVISVNDI  
SLRIDEFISDAISLRHVVINDDHDGIEVALPDASQWGEVFKIVSNPDASTQKIRTRGKP  
ARQTLIEIGDELVFDIRKGEVAYGVTVPYDGRSLGEVKQDFGVGL

>RXN02508 TRANSLATE of: rxn02508.seq check: 3436 from: 1 to: 1854  
MRTSIATVCLSGTLAEKLRAAADAGFDGVEIFEQDLVVSPPHSAEQIRQRAQDLGLTDLDF  
QPFDRDFEGVEEQFLKNLHRLEEKFKLMNRLGIEMILLCSNVGTATINDDDLFVEQLHRA  
ADLAEKYNVKIAYEALAWGKFVNDFEHAHALVEKVNHKALGTCLDTFHILSRGWETDEVE  
NIPAEKIFFVQLADAPKLSMDILSWSRHHRVFPGEQDFDLVKFMVHLAKTGVDGPISLEI  
FNDSFRKAEVGRTAIDGLRSLRWLEDQTHALNAEDRPSALELRALPEVAEPEGVDFIEI  
ATGRLGETIRVLHQLGFRLLGGHCSKQDYQVWTQGDVRIVVCDRGVTGAPTTISAMGFD  
PDPEAAHARAELLRAQTIDRPHIEGEVDLKGVPYAPDGVLEFFAGPSPDGMPEWLPEFGVE  
KQEAGLIEAIDHVNFAQPWQHFD EAVLFY TALMALETVREDEFPSPIGLVRNQVMRSPND  
AVRLLLSVAPEDGEQGDFLNAAYPEHIALATADIVAVAERARKRGLDFLPVPENYYDDVQ  
ARFDLPQEFDLTKENHLLYDRDENG EFLHFYTRTLGTLFFEVVERRGGFAGWGETNAPV  
RLAAQYREVRDLERGIPN

>RXN02513 TRANSLATE of: rxn02513.seq check: 7035 from: 1 to: 732  
MLPIWMGLPFFKAGALSRRKAVFSALGAAALMGALPTIPTAQQTPTGYGFDATASISE  
EPEFSTQQLADGGTLGFDYRI PSLGVAPNGNVLASWDGRPNNCSDAPQPNISIVGVSTD  
NGATWGEQHDISAGITAEPKTGYSDPSIVVDWERGDVFNHVKSF DAGYFTSQPGTDPDD  
RNVAHVAYAKSSDNGSTWVADTVITDQVVAHDTWDSRFATSGNGIQLQYGAYKGRVLQPS  
VTRM

>RXN02530 TRANSLATE of: rxn02530.seq check: 7593 from: 1 to: 657  
MSTNYEAIIGAGQAGLAAAHLSRRGFTPGKDFLVLDSDNGPGGAWRHRWDSLTLGKAH  
GIADLPGLPMNRDPKTPASTLVAGYYGAYENEFSAVVRPVKVS RVEPTSEDPSPLRV  
SSDDGREWITRMVLNATGTWNPYPYIPGIDKFQKQLHTVNYRKAEDFKGKKVLVVG  
GLSAVQFLLELEGLAETTWATRRPRTYAARVRRRLGHCG

>RXN02565 TRANSLATE of: rxn02565.seq check: 9394 from: 1 to: 1266  
VNDLTPDSGQEIRNAESLERFFEGTPNVKITKLEPHPGRTSIIIVTVPGSDPD AEPLTLG  
HTDVVPVDLPKWKDPFGAEISDQGIWGRGSVDMLFITATQAAVTRQVAREGGLRGTLTF  
VGVADEEARGGLGAKWLSEEHQNLFSWKNCLSESGSHLPVHDGSDAVVINVGEKGAAQR  
RIHVNGDAGHGSIPFDRDSAIVKIGEVARRIAAADLKVAKDDIWQGFVQAHRFDPETEQA  
LLSGTSP EAYAEFGGLSRFAHAVSHLTIAQTVVVRAGQAINVLP SHAYLELDIRTLPGQTN  
DYVDDTLRAALGDLADEVEIEHLISEEATVSPTDSRLYNTLEKVLGDFFPDAPVVP IISS  
GGSDLRFGRRLGGVGYGFAVHARERTLAEAMQLHSHDEALYLEDLELTVRGYDSVVREF

LG

>RXN02589 TRANSLATE of: rxn02589.seq check: 3006 from: 1 to: 765  
 MSISDNSRDQLGELPAGRPLQSDFDNDLDYPRLGSVTFRRGTLTENQQTMWDEKWPELGR  
 VLEDELIDVDWFGREGAKTIVEIGSGTGTSTAAMAPLEADTNIVAVELYKPGKLAKLMGS  
 VVRGEIDNVRMVRGDGIEVLNRMFADGSLDGIRVYFPDPWPKARHNKRRIIQSGPLNLFA  
 KKLKPGGVLVHATDHADYAEWINELVEVEPLLEYKGWPWEECPQLTDRQVITKFEGKGLE  
 KDHVINEYLWQKVQN

>RXN02704 TRANSLATE of: rxn02704.seq check: 1921 from: 1 to: 1689  
 MTTGASKKPARPNTGAKTRTGLGIRERISGAWNDLLARPLTDYIMILCIVVILSCLGVVM  
 VYSSSMTWSLREGGVSWGTAVRQGIMIVLGGFFAMWVALMTRPQTIRNLSNLILIVSIVLL  
 LAVQIPGIGTGKEEVGSQSWIALGPIQFQPSEIAKVAIAVWGAHYLAGKGPVQHWFNNHL  
 MRFGGVGAFMAFLIFMEGDAGMAMSFVLVVLFFAGIAMGWIAIAGVLIIAALAVLAL  
 GGGFRSSRFVEVYFDALFGNFHDVIRGIAFQSYQGFLSLADGSGLVGLGQSRKWFYLP  
 KNDIFIFAIIGEELGLWGALVIALFAGLLYFGLRTAKKSHDPFLGLMAATLTASVVSQAF  
 INIGYVVGLLPVTGIQLPMISAGGTSAIITLASMGLLISCARHEPETVSAMASYGRPAID  
 RLLGLREPSSTLTTSNASLRSNKTAAKQKPSPKESRDRFGEPVTARRAQAPRSGRAGV  
 QSEAPRRSTGSVKGRSSGQDNGRSNEGRTARSQSTTGGAADRSVDRSRQSRPTERRSESR  
 AMIGVTTATADKCEIRRTTNKDG

>RXN02707 TRANSLATE of: rxn02707.seq check: 464 from: 1 to: 1530  
 MTLGEIADIVGGRLTGGAQEDTLVSSSVFEDSRSLTPGGLFLALPGARVDGHDFAATAIE  
 KGAVAVLAAREVDVPAIVVPPVKIQESNADIYAHDPDGHGAHVVEALSRLARHVVDICVA  
 GHQLNVVAITGSAGKTSTKDFIATVLDQDGPVAPPGSFNELGLPHTALRCTTDTKYL  
 AEMSARGIGHIKHLTEIAPPRIAAVLNVGHAHLGFEFGSRENIAQAKGEIIEALPSKKTSS  
 VVPLNTDPFVARMAPRTKARVVWFTTDAGQAKKSDYWATSISLDAVARASFTLNTKDGSW  
 PVTLQVFGEHQVANALAAAIAEAGVAPELVVAGLEAHSAAHMDVKTRADGVTIIN  
 DSYNANPDSMRAGIAALAYTASGRSEATSWAVLGQMGLGDDASEAHAELGAELAKYNVQ  
 ELVAVGENPNCAALAESASLVSTHVVSDVDALELLAGHIKRDDVVLVKASNADRLWR  
 VAEALHGMVPLKNTGGSVNDDSRNVEGQ

>RXN02723 TRANSLATE of: rxn02723.seq check: 9251 from: 1 to: 666  
 VNKKVIAIVGVVVVLVAILGVVAVFVPIKVGNIETGATRTYPDQVLEVSGIVEGKNL  
 FRVDATAAGQNIWELPWKSVTVNRALPSTITVELTEREPAVFIKRADGDHVIDTEGKEI  
 IIGTPPVGTVEVSGADEGNSEVLPAVIAVINAIIKAQDAQMTESIQQVVEAPDQFDILLKMN  
 DGREIYWGSSENNHDKAVAMSTVLKREGQRWNISFSPMVTVR

>RXN02813 TRANSLATE of: rxn02813.seq check: 4724 from: 1 to: 999  
 VEAAALAVAAPEHAAMAKATIDSYQLDVEELSRRAAEGGNPLIPLVTDLKAINPAGIHIG  
 ATSQDIIDSALMLCMKEGVGEVVDKLLKLARDLAELTAEHKATPIMGRTLQGIATPTTFG  
 ALTGGWLVAVDNAARALEALEFPVSYGASGNMTAVHPRGFEIQAKLAEELGLFDPQVWV  
 HSDRTPITAIASALATAAGVVRKIAGDVVFYSQTEVGELREKSPGGSSAMPHKANPAAAI  
 ACDGYARRAPGLLATLFDALDCRLQRGTGSWHAEWATLRELAAVTHSAVSRAATSIDGIT  
 VNVDVMASRVNGPTGHAEDLAERALEIYGKGRS

>RXN02820 TRANSLATE of: rxn02820.seq check: 6804 from: 1 to: 1311  
 MKVTQSTFLKSVAFTVAALTLTISSCSSGEDTSASSTDTENSSTQAAASPPLAPCELP  
 DASAEVEEGTHTGEDISVAPEIGTGYREGMTPVQTQGYAVATANPIASEAACAVLREGG  
 TAADALVTAQFVLGLTEPQSSGLGGGGYILYYDAEANAATAIDGRETAAPVAADENYLIHV  
 SAEDQTAPVPDARRSGRSIGVPGIVAALGQLHDSFGKTSWQDVLTTTPQQLATDGFSISPR  
 MSASIANSAEDLSHDPEAAAYFLDENGDAKAPGTLQNPDYAETIRLISEGGPDAFYTGE  
 IAADIVERATREVDGFTPSLMSTADLAAYTPETREALCAPYRDKIVCGMPSSSGGVTVM  
 ETLGILNNFDLAQYPPEVGLDGGLPNAEAVHLISEAERLAYADRDAYIGDPAFVEVPAG  
 GVQQWINHVHTGEHSL

>RXN02839 TRANSLATE of: rxn02839.seq check: 5996 from: 1 to: 447  
 CVVNDYADRKFDGHVKRTANRPLPSGAVTEKEARALFVVLVLISFLLVLTNTMTILLSI  
 AALALAWVYPFMKRYTHLPQVVLGAAGWSIPMAFAAVSESVPLSCWLMFLANILWAVAY  
 DTQYAMVDRDDDKIGIKSTAILLANTIN

>RXN02908 TRANSLATE of: rxn02908.seq check: 6002 from: 1 to: 261  
 LKLHPEVLERAIAIDIKGVTAACVVGIPDPRLGQAIVAAYSGSISPSEVIEGLDDLPRWQL  
 PKRLKHLESLPSIGPGKADRRRAIAKLF

>RXN02913 TRANSLATE of: rxn02913.seq check: 5023 from: 1 to: 486  
 MIPGEYILSSESALTGNVGREAKTIEIINTGDRPVQIGSHFHFAEVNPSISFDRSEGYGFR  
 LDIPSGTAVRLEPGDARTVNLVAIGGDRIVAGFRDLVDGPLEDLKVNVWEGREDGWRRSS  
 AAGDAPQELPQVEAAERGRKLDDATDVDNTNVGTEEGFEEGRN

>RXN02937 TRANSLATE of: rxn02937.seq check: 1915 from: 1 to: 402  
 VISNGEGPVVALRGDIDALPMAERSGKEYAATGVTQVDNTTGQETPVAHTCGHDVHISSL  
 LGAVQAFNSHRELWNGTLMVAFQPAEETAAGARMADQDNAPGNHSPAFAPDMQPTLDRG  
 VEALVVAASAWLVK

>RXN02944 TRANSLATE of: rxn02944.seq check: 4495 from: 1 to: 678  
 VNAQNLDIDPEHSMGQATAGVSQNPVMAALPESGTSHISIIDSYGNAASLTTSVEAAFGSF  
 HFTRGFILNNQLTDFSAEPLDEDEGPVANRVESAKRPRSSMSPMLVFNASGDGEIADLNM  
 VLGSPGGSLIIQYVVKTLVNIIDWMDPQQAVSAPNFGAMNQPKTGLGSEHPLIANDSAE  
 LVSELESKGHEVNVGEQSSGLSALVKNGDTIVGGADPRREGVVLLG

>RXN02952 TRANSLATE of: rxn02952.seq check: 9893 from: 1 to: 516  
 MSSPALDAKQRLAESDGLIAVTPVFTASYSGIFKMFFDVLDPKTIVGLPTIIAASAGTA  
 RHSLVLDHAIRPLFTYLRVVVPTGVFAATEDFGTEAGADIERRVNRAAGELATLMLQDY  
 SSVQGLGGATANQDADLSFRRTTGVTGENFSSFADLSQRTRRKRLNSRISV

>RXN02972 TRANSLATE of: rxn02972.seq check: 3943 from: 1 to: 411  
 VEIARDYVAERIQEVKAIVPISKAKTFVGCAGTFTTISAWVQGLESYDRDAIHLSALNFD  
 ALRVVTDEIISESSQRASNPFVVDPGRADVIGGSSVVVQAAIDLASKEAGVDYIIISEKD  
 ILDGLILGLVEADSLKK

>RXN02973 TRANSLATE of: rxn02973.seq check: 9389 from: 1 to: 654  
 VSDAGKKDSSKVEIGLTGRPLRELPEPSPLEKHGPATIIAMANQKGGVGKTTSTINLGAC  
 LAEAGRKVLLVDLDPQGALTAGLGIHYDDVDITVYDLMVDNNSTIDQAIHHTGLPDLVV  
 PANIDLSAAEIQLVNEVGREQTLARALRPVMKDYDFIILDCQPSLGLLTVNALACAHGVI  
 IPMECENLSLRLGLALLTDTVEKVADRLNFDLEILGILV

>RXN02974 TRANSLATE of: rxn02974.seq check: 3965 from: 1 to: 195  
 MQDLYSDPGELKPGAQGGFSALIDGDTLVISGGDAGATPVAALRTALDVAWAATEQSPRY  
 ALIQR

>RXN03000 TRANSLATE of: rxn03000.seq check: 5213 from: 1 to: 567  
 MSLPHSDELRGQKIIISGGGIGGAAGALALALRGADVTLYERAAEFKEVGAGLQIGPHGW  
 RMLESWGLLDQIVVAGYLPEDMQFRDAVNRETILTMRFDEEFQQHYGGRYLVIHRSDDL  
 ILVTNAEAAGAKLHNGVLVTDSTVDGGIEVDIESSINKGEDNKTLVDAFLAFDGIHSV  
 MRKKLVDDA

>RXN03026 TRANSLATE of: rxn03026.seq check: 3330 from: 1 to: 267  
 MPGKILLNNGPNLNLGKREPDIYGHDTLEDVVALATAEAAKHGLEVEALQSNHQGELID

ALHNARGTHIGCVINPGGLTTLRWRFWML

>RXN03028 TRANSLATE of: rxn03028.seq check: 9204 from: 1 to: 2775  
 MFERFTDRARRVIVLAQEEARMLNHNHNYIGTEHILLGLIHEGEGVAAKALESMSGISLDAVR  
 QEVEEIIIGQGSQPTTGHIPFTPRAKKVLESLREGLQMGHKYIGTEFLLGLIREGEGVA  
 AQVLVKLGADLPRVRQQVIQQLLSGYEGGQGGSPGGQGAAPTGGDAVGAGAAPGGRPSSGS  
 PGERSTSLVLDQFGRNLTQAAKDGLDPVVGDRDKEIERIMQVLSRRTKNNPVLIGEPGVG  
 KTAVVEGLALDIVNGKVPETLKDKQVYSLDLGSLVAGSRYRGDFEERLKKVLKEINQRGD  
 IILFIDEIHTLVGAGAAEGIDAASLLKPKLARGELQTIGATTLDYRKHIEKDAALERR  
 FQPVQVPEPSVDLTVEILKGLRDRYEAAHHRVSITDGALTAAQALADRYINDRFLPKAVD  
 LIDEAGARMRIKRMTPASSLREVDRIADVRRKEAAIDAQDFEKAAGLRDKERKLGEER  
 SEKEKQWRSGDLEDIAEVGEEQIAEVLANWTGIPVFKLTEAESSRLNMEELHKRIIGQ  
 DEAVKAVSRAIRRTAGLKDPRKPSGSFIFAGPSGVGKTELSKALAGFLFGDDSLIQID  
 MGEFHDRFTASRLFGAPPGYVGYEEGGQLTEKVRKPFSSVVLFDIEIEKAHKEIYNTLLQV  
 LEDGRLTDGQGRIVDFKNTVLI FTSNLGTADISKAVGLGFGSGSSETSDAQYDRMKNKVH  
 DELKKHFRPEFLNRIDEIVVFHQLTKDQIVQMVDDLIGRVSNALAEKDMSIELTEKAKDL  
 LANRGFDPVLGARPLRRTIQREIEDQMSEKILFGEIGAGEIVTVDVEGWGDGESKDTDRAK  
 FTFTPRPKPMPEGKFSEISVEAAEAIQDVDSAADGDVPETDLSLSDIDLETLEKFEEDVEN  
 GTDIDQVSGDYYGTDDQGGTAPSKE

>RXN03036 TRANSLATE of: rxn03036.seq check: 4467 from: 1 to: 666  
 MAEQLRQFEGRVLPNQSEDLQGLGFDLGTVFSRRKVLGFIGVGGAGVALAACSPSGSS  
 AASSTSSASSSAAATTSAAAETLTEMKSETAGPYPGDGSNPDVLEVSGVERQDITKSID  
 SDTVAEGVPLTLTMTILDMNNNNQPMEGAAVYVWHCDAPGRYSMYDSELEDETYLRGVQI  
 TDKYQVTFDTIFPGCYAGRWWHIHFEVFPDRDSITDSTNNI

>RXN03077 TRANSLATE of: rxn03077.seq check: 553 from: 1 to: 1185  
 VMEIGVQVASWMDRHHDEVIKWRRHLHSHPELSHMEYRTTEYLASVLKDHGMEPHLFPGT  
 GLMVDIGPEGDSRLAFRADIDALPLESTGLEFSSTATGVAHACGHDVHTVIALALACAL  
 NTIELPIGIRVIFQPAEEVMTGGATDVIAHGGLDGVDAIYAIHVEPKLVGRVGVVRAGAI  
 TSASDVIEIRVKGEGGHSARPHLSADVYALSKLVVDLPGLLSRRVDPRTGTVLVFGTIN  
 AGYAPNAIPDSGIVSGTLRTADISTWRDMRPLISELVEQVLAPTGVTHELIYNPGVPPVL  
 NDDVATALLASAARDMDTQSVVQAPQSSGGEDFSWYLEHVPGSMARLGCWPGHGPKQDLH  
 QSDLVVDERAIGVGVRFLFGSLVQQYSSRSEAFNS

>RXN03088 TRANSLATE of: rxn03088.seq check: 1646 from: 1 to: 387  
 MGQTRIISGDARGRKIEVPPAGTRPTS DRAREGLFSSLQVRFGFEGQRVLDIFAGSGALG  
 LEAASRGADVVLVESNPKAVEVIRRNVDVVKHPRVTVAEMKASTYLASAPDKFFTMVLA  
 DPPYELATT

>RXN03091 TRANSLATE of: rxn03091.seq check: 9170 from: 1 to: 546  
 MLAKDSYTIKLTLDPDVQDAAHNAVSSHVDPTTPGVAEVVNVIEPGENS RDILAITSSRN  
 YGLDLDAGETMLPQATSRVGNAGSIFKI FTAAAIQQGAGLDTMLDVPSRYEVKMGMSG  
 GAANCPANTYCVENAGSYAPRMTLQDALAQSPNTAFVEMIEQVGVDTRCGSFSKAGPAKL  
 HR

>RXN03092 TRANSLATE of: rxn03092.seq check: 7622 from: 1 to: 885  
 VSTTNSLTKLVASTVAAGVLGALALVPFASLSGVAVARTNDTMQTNLSDLTDGRGPGVTT  
 ITDSTDQPIAYIYAQRREFVGGDQISTSMKDAIVSIEDRRFYEHDGVDLQGFGRAILTNL  
 AAGGVEQGASTINQQYVKNFLLLVEADDEAEQAAAVETSIPRKLREMKMASDLEKTL SKD  
 EILTRYLNIVPFGNGAYGVEAAARTYFGTSAEELTI PQSAMLGIVQSSSYLNPNYTHDA  
 VFERRNTVLGAMADAGAI SPDEASAFQQEPLGVLET PQGLSNGCIGAGDRWFFLQ

>RXN03094 TRANSLATE of: rxn03094.seq check: 3583 from: 1 to: 1752



MSSFNPTTKTNEAMQAAALQQASSAGNPDIRPAHLLAAILEQTDGVAAPVLMATGVDPKEI  
LAEAKKLVASYPKASGANMANPNFNRDALNAFTAQELAGELGDEYVSTEVLLAGIARGK  
SDAADLLTNKGATYDAIKEAFPSVRGSQRVTQDPEGQFQALEKYSTDLTCLAREGKIDP  
VIGRDQEIIRRVVQVLSRRTKNNPVLIGEPGVGKTAIVEGLARRIVAGDVPESLKGKTLIS  
LDLGSVMVAGAKYRGEFEERLKAVLDEIKGANGEVVTFIDELHTIVGAGASGESAMDAGNM  
IKPLLARGEIRLVGATTLNEYRKYIEKDAALERRFQQVYVGEPTVEDAIGILRGLKERYE  
VHHGVRIQDSALVAAAELSNRYITSRFLPDKAIDLVDAAASRLRMEIDSSPQEI DELERI  
VRRLEIEEMALSKESSDAASKERLEKLRSELADEREKLSSELKARWQNEKTAIDDVREMKEE  
LEALRSESDIAKRDGNYCRVAKLRYGRIPELEKQIEDAESKVEVNENAMLT EETPTDIA  
DVVSAWTGIPAGKMMQGETEKLNMERVVLGNRVVGQLESGNCSV

>RXN03128 TRANSLATE of: rxn03128.seq check: 7599 from: 1 to: 855  
NGLAIPDIGFVGFQTPPDETRNSVNAALEAGYRHIDTAAAYGNEREVGEAIAASGIGRDE  
ITIETKIWVTDYGFEE TLHAFDKATGKLGVDTL DILILHQAVPSSFDRTIAAYKALEKLL  
FDGAVRAIGVSNFMPEHLDKLLETSIVPALNQIECHPYFQQRDVLARNEQLGILTQAWS  
PIGGITFYRDGQLPSTLENEVIAGIAAEVGKTPAQVMLRWHLQRRRHAI PKSVTPSRIVE  
NFEIFDFELSDEQLQQIDALNTDLRGGPEPENITMENYYREIPEA

>RXN03131 TRANSLATE of: rxn03131.seq check: 2811 from: 1 to: 273  
MTTSVPASTKALSVAGENPGLRIGTAPDSWGVWFPEDPKQIPWERFLYEVVKAGYTWIEL  
GPYGYLPTDANQLEDELGKRGLKLSAGTEFT

>RXN03133 TRANSLATE of: rxn03133.seq check: 1541 from: 1 to: 684  
VTCATPLTPPLLCHLNPRHAPLTDPHIDASRRHRGPFHATPSYAGFHPSFTDDTARMLGN  
LAKIGAVATWEKTLVDAASWAE LPHPPVIVGDTPPSTVTPDNAWYQFRVGKHLGRDAFAE  
IVMCLGHVFCHHVPQVWSTTCASQDADSTMLIEAETAGALAIARVGGPTRRGGSSFFGDA  
LLKEGTPLPAGFRLDVVLHAASEIEDLLRGDTTAVVSGAWSVEDRRGY

>RXN03145 TRANSLATE of: rxn03145.seq check: 4840 from: 1 to: 447  
MPTYTCWSQRIRISREAKQRIAEAITDAHHELAHAPKYLQVIFNEVEPDSYFIAAQSAS  
ENHIWVQATIRSGRTEKQKEELLRLTQEIALILGIPNEEVWVYIPEIPGSNMTEYGRLL  
MEPGEEEKWFNSLPEGLRERLTELEGSSE

>RXN03178 TRANSLATE of: rxn03178.seq check: 6627 from: 1 to: 801  
PTTVVTGTMEANIEGSRVGVGEAGQYTV DQLLHGLLLASGNDAAAYMLAQELGGDQATLE  
KVNALAKELGTQDTFVATYSGLDAPGMST SAYDMSLIYQHAWQNPVFESIISTDHIDFPG  
WGDNEGQVWVNDNALFMNDPDGIGGKTGYTDDANHTFVGGLDRGRRRLAAVLLDSTVSDI  
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LVVPIGIIVLLLLIAALAWTFRSPKKKN

>RXN02021 TRANSLATE of: rxn02021.seq check: 9962 from: 1 to: 948  
MSENIRGAQAVGIANIAMDGTILDTWYPEPQIFNPDQWAERYPLEVGTTRLGANELTPRM  
LQLVKLDQDRLVEQVAVRTVIPDLSQPPVDAHDVYLRLHLLSHRLVLRPHMHMONTLELL  
SDVVWTNKGPCLPENFEWVRGALRSRGLIHVYCVDR LPRMVDYVVPVPGVRISEAEVRRLG  
AYLAPGTSVLREGFVSFNSGTLGAAKVEGR LSSGVVIGEGSEIGLSSTIQSPRDEQRRRL  
PLSIGQNCNFGVSSGIIGVSLGDNCDIGNNIVLDGDTPIWFAADEELRTIDSIEGQANWS  
IKRESGFHEPVARLKA

>RXC00110 TRANSLATE of: RXC00110.seq check: 7663 from: 1 to: 549  
VSNKDGLFTDGNSTFAPKVDSIPLSDVDTSVSGEASIGTLISNATSQMSSLFRAEVELAKTELAGA  
AAIGGGAFSVAGVIALYSSFFFFFVAALLSEWIKPWAAFLIVFLFMLVIAAALALFGWRKVKMGAPK  
NTIQSVNQLKNLVPGQASEKLEKANKRGLYTSASFHSPGAITGDH

>RXC01971 TRANSLATE of: RXC01971.seq check: 8803 from: 1 to: 831  
MSKKKPRPIPVPAQFIPGLIDAHTHLASCGGDLAGLVERAKEAGVEKLCTVGDGLAEAEALAEAAQ  
NVFAACAIHPTKADQLDGAARARLTQMAADPNCVAIGETGLDSYWIKHDPEDTAALDVQEEALRW  
HIDL AISADKPLMIHNREADADLMRVLADAPPPKDTILHCFSSPLDVAKEALDRGYVLSFAGNVTFKRNEELR

EAARIAPISQILIETDAPYMTPEPFRGSRNEPSLIGHTALCIAEVRGMAVEDVAAALNENFDRVYGVTN  
L

>RXS00004 TRANSLATE of: RXS00004.seq check: 8907 from: 1 to: 471  
VLTQLIESSIFDNVASRESSEFLGHAAIDLLAGLVYEKATPYAPDEALRVAVYGYIRENLGSSQLTVAA  
VAGAHRIAVRTLHRLFEGEAYGVAELIRHLRLEAVYEDLRDPRLQNLTLAIGMRHGISSQAHLTRLFR  
AKYGVPPAEFRRGYINSAA

>RXS00156 TRANSLATE of: RXS00156.seq check: 311 from: 1 to: 1110  
MNERTSDAFDALLVLSFGGPEGHEEVRPFLENVTHGRGIPPERLDEVAVHYHHFGGISPINALNREIIA  
NVEKELASRDHKLVPYFGNRNWKPFDEAAEQMADDGVKNALVLATSAGGYSGCRQYQEDIQGMIKHL  
ESQGQSITFTKLRFYDHPFVSTMAQLVQDSYAKLPDELRLDEARLVFTAHSIPLTADNAAAGTPEDGSL  
YSTQVKEASALIAEAVGVSDFDVWVQSRSGSPHTPWLEPDIVDHAVELNEKGQKALVVCPVGFISDHME  
VIWDLDELMEEAEKRNMVVERVATVGPTDEFAALVVDLIEEAELKRVIERLGKLPARGSSVNGAPCGD  
GCCGTAKHKHTARVNPNSAAPAAN

>RXS00166 TRANSLATE of: RXS00166.seq check: 9467 from: 1 to: 660  
VELARGFGRVLDVGAGTGKLTSELTADQVLALDPSMDMLRVFRSALPAVPCWQATAEHTGIRDNAVDLI  
TCAQTWHWVDVTAASAEFDRVIAPEGAVLLVWNNLDTSIAWVHRLSRIMHAGDVLKPGFTPETAAPWII  
DREIRTTWNQHLTPEEIIQLAHTRSYWLNASEKIKERVDQNLQWLYEHLGFSPPNPVELPYRCDAFL  
SRSGTLAGRSSNL

>RXS00197 TRANSLATE of: RXS00197.seq check: 7429 from: 1 to: 1212  
VAAYLLGVVLFLLGIQAVTIALHEWGHFITARIFGMKVRFFIFGFGPTVFAKRRGETVYGLKAI PVGGFC  
DIAGMTAQDELDPEDLPRAMYLKPWWQRIIVLSGGVIMNLIVGFLVLYGVAVSSGIPNPDVDTTATVDT  
VQCVPETQISATELSSCVGSGPAGDAGIEHGDKILAVNGQEMASFTAIRDAILELPGETATLTIEREGT  
LFDVDLQVASVTRLASDGSEITVGAVGMSSLPPTDVYKKGPIEGVGATARFTGDMISATWDGLKAFPA  
KIPGVVASIFGAERDVESPMVVGAVRIGGEFVERSMWDMFMMMLASLNFFLALFNLVPLPPLDGGHIA  
VVIYEKIRDFFRKLGRKPAGGPADYTKLMPVTVAVAALLMTVGGLVIVADVNPVIRLFG

>RXS00288 TRANSLATE of: RXS00288.seq check: 2098 from: 1 to: 1011  
MSAQMDTPDPTMSAVAMLDPSIPSDQPDFLIDVEVDRPTGPHDLLVHIEAVSINPVDTKVRMRAGKQKH  
PKILGFDAAGEVVAVGSQVTLFNVGDKVYFAGSNQRPGSNAEYQVVDRLVGHAPQSLGAHDAALPLV  
ALTAWESLFDRLGVQTSTTGTLLVLGGSGGVPSALIQLARALTGLKVVATASRPESQEWVTKLGAHEVI  
DHSKDLSEQISDVDFVFSWTTGREVELATLMKPQSHLVLIIDPVDPNLGAFAKQKAIALHWEFMFTRAM  
FNTPDMGEQGKILNKIADMVDRGQFESVTATVLDGLNAANIMEGHRLEVEQGKTSKGIVVRV

>RXS00624 TRANSLATE of: RXS00624.seq check: 6054 from: 1 to: 687  
MSGRLLVSVSSIFDQTRSAADRLISDLRADGIEVSLVAPRIDGDWRLAKDKGTALWMEQQRRERGH  
LNGFDQAVQGRSEFANLERHEARLRLTGAIQMQKIGFEFQIFAPPRWRMSEGTFVAVLPEFDFNVAAS  
TRGLHNLDTGFLACRNLVSGEGFGAAKWWRNVIKAVTRGAKEGNTVRLSASARNLTNPKVAADFREA  
ALAALDLGAQVQTYSSQAAQLA

>RXS00949 TRANSLATE of: RXS00949.seq check: 7131 from: 1 to: 648  
MKVFIIGAAGGIGNRLSSLLHARGDAVSGMHRNLEQASKITDTGATAVLGDLIHNSTEELAEFRGHDA  
IVFSAGAHGTGQENTTLIDGAGLRKAADAASAANVSRFILVSAPFESSRGENTTENFEHYMKVKKSDV  
YLSHTDLWDVIVRPGVLQDEAGDGLVTAGLAINYGNVARDNVAAFIDEALHQPQLSKIIVELTDGSTPV  
AEAVERLIK

>RXS01000 TRANSLATE of: RXS01000.seq check: 4854 from: 1 to: 846  
MSTLTSHRTVPAPSSPPARPNKLARNIVAIVAALIVLIATGTLKIEWNELPQMPAQVWHYLELMFSDPD  
WSKFGRVQEMWRSIAMAWLGAILCVVSVPLGMLAARGVGPYWLRTVLRVFAVIRAFPEVVIAIILL  
TVTGLTPFTGALALGISGIGQAKWYEAIESTPTGPSEAVRAAGGTTPEVLRWALWPQVAPSIAFAL  
YRFEINIRTSAVLGIVGAGGIGSMLANYTNYRQWDTVGMLLIVVVVATMIVDLISGTIRRRIMKGA\$DR  
VVAPSN

>RXS01002 TRANSLATE of: RXS01002.seq check: 1757 from: 1 to: 804  
MNSDASATTNSWAINFDHVSVTYPNGTKALDDVSLTINPGEMVAIVGLSGSGKSTLIRTINGLVRATEG  
TVTVGPHQINTLKGKALRDARGQIGMIFQGFNLSSRSVFQNVLVGRFAHTAWWRNLLGFPTHEHKQIA  
FHALESVGIHLKVVWTRAGALSGGQKQRVAIARALSQDPSVMLADEPVASLDPPTAHSMRDLNINNVE  
GLTVLVNLHLIDLARQYTTTLVGLRAGKLVYDGPISSEATDKDFEAIYGRPIQAKDLLGDRA

>RXS01003 TRANSLATE of: RXS01003.seq check: 6582 from: 1 to: 804  
 MTPSPSTLIPQKPRAGVKTYLIIGAIIVFTVATATPALGGIELDFASIAANWRNGANKLLQMLQPNFAF  
 LPRTWLPMLLETLMALVGAVLSAAVSVPLTLWAAQATNTSAIGRGIVRTIINVVRVSPDLVYATILVAM  
 VGVGALPGILTFLFNLGIVVKLVSEIDSTEHPYMEAGRAAGGSQFQINRVSALEVMPLFANQWLYT  
 LELNVRISAILGIVGAGGIGRLLDERRAFYAYADVSVIILEILIVVIVIEVISNALRKRLV

>RXS01114 TRANSLATE of: RXS01114.seq check: 9460 from: 1 to: 1224  
 MNPQDIVICSPRLTPVGGYGSFTGVPVEELATTVINAVEATGITGDDVDDLILGQASPNGAAPALGR  
 VVALDSKLGQNVPGMQLDRRCGSLQAIIVTAAAHVASGAADLIAGGAESMSRVEYTVSGDIRWGVKGG  
 DMQLRDLAEARETAGGRNHPIPGGMIETAENLRREYGISREEQDKISAASQQRWGKAADAGLFDDEIV  
 PVTVPKKRGQEPTIVSRDEHGRPGTTVEKLAALRPIMGRQDAEATVTAGNASQNDGAAVIVTTRAK  
 AEEKGLRPVMRLAGWSVAAPVPMGIGPVPATKKVLDRLGLTLEDIGAIELNEAFAAQALSVLKEWNI  
 SWEDERNPLGSGISMGPVGATGARMVTLAHMQRENTQYGLATMCIGGGQGLAAVFEKEN

>RXS01205 TRANSLATE of: RXS01205.seq check: 7949 from: 1 to: 531  
 VSAYPPAIIAAALVGICAGVLPHNFEPSRIFMGDSGSMILIGLLAAASTSASGKINMSLYGAADFIALI  
 SPIIVVLAAVAIPLLDLVMAVVRVRGASPFSPDKMHLHHRLLSIGHTRRRVVLVLYTWASAVAFGAV  
 SFSVVPPLFATGSSICGILIAVAVTAVPVMKSRRRAAKLD

>RXS01223 TRANSLATE of: RXS01223.seq check: 5210 from: 1 to: 612  
 MTSVSFLSKIQALFAPKPELPAAKWLVVGLGNPGAKYESTRHNVGVMCQDMLIDAHQQQPLTPATGYKA  
 LTTQLAPGVLAVRSTTFMNHSGQGVAPIAAALGIPAERIIVIHDELDLPAGKVRLLKGGNENGHNGLKS  
 LTEELGTRDYLRVRIGISRPPAGMAVPDYVLEPVDHDQPGIELAAEAVDLLLAQGLSAAQNAIHSR

>RXS01269 TRANSLATE of: RXS01269.seq check: 7324 from: 1 to: 441  
 VVFEMIKFRTMLEPDEKHVTDEQRLTKVGKLLRETSLEDELPTLWNVFKGDMSLVGPRPLLVSYLEHYSS  
 EQARRHEVRPGITGLAQVNGRNQTTWDERLKLDEYVDRCSLKLDFKILIAITVKTVLSKKGISNEGHTV  
 MPSFIEERK

>RXS01421 TRANSLATE of: RXS01421.seq check: 1863 from: 1 to: 387  
 MTSKSSISGKRPNLPSLTGARWLAALAVYFLHALVFLSVYPFQOSELFATIHKFVPMQLGSAGVTFFFIL  
 SGFLIYWSNSQLKGMKNVLYYCKRRITKIYPMHLIALPMFIEASAKFTTTGITWVLILRE

>RXS01491 TRANSLATE of: RXS01491.seq check: 8146 from: 1 to: 651  
 MLDESLFPNSAKFSFIKTGDAVNLDHFHQLHPLEKALVAHSVDIRKAEFGDARWCAHQALQALGRDSGD  
 PILRGERGMPLWPSSVSGSLTHTDGFRAAVVAPRLLRSMGLDAEPAPLPLKDVLSIARVGEIPQLKR  
 LEEQGVHCADRLLECAKEATYKAWFPLTHRWLGFEQAEIDLRRDDGTFVSYLLVRPTVPVFIISKWVLRD  
 GYVIAATAVT

>RXS01572 TRANSLATE of: RXS01572.seq check: 5324 from: 1 to: 492  
 MGTVQIAAAKGAEVTVLSRSLRKAELAKELGAARTLATSDEDDFFTEHAGEFDFILNTISASIPVDKYLSL  
 LKPHGVMAVVGLPPEKQPLSFGALIGGGKVLTSNIGGIPETQEMLDFCAKHGLGAMIETVGVNDVDAA  
 YDRVVAGDVQFRVVIDTASFAEVEAV

>RXS01642 TRANSLATE of: RXS01642.seq check: 4751 from: 1 to: 1242  
 MRRLIAVSLAALFMLASTPATRAQEVEALACPEVAIADPSSAVLDEHLSQSLSQAHQALATGAGVMVAVI  
 DTGVSHPRLPHLIPGGDFVGAHQSPDVPGEIDCDGHGTIVAGIIASQGNPGTGWPYDSSDPYIGVA  
 PDSGIIISIKQTSSYVRTREDSNVGTLSTLAESIHRALDSGAHVINISVVSCLPQSPDEAASFQPLTDAL  
 NRAELQGVIVVAAAGNLGQDCPVGSTVYPASDVTLSVSARFDSHTLAEYSMPGNQQILSAPSHIQAGL  
 SPRGDGFASHMITTAGESPFEGETSFAAPVVSATAALLRQHFPFATPYEIRARIFNSIDPARGAIDPYLA  
 LTQEIYPTTPLVHEIALSVPTPPDDSPRERGILVTAIIVGLLAVLAVLMGLRRIHHHSFAFQASSSVIT

>RXS01902 TRANSLATE of: RXS01902.seq check: 3503 from: 1 to: 1059  
 VQKKSRTGQTTWNGGPPIENPGTSFILSAGDQANHSSWDEHSAYISPETLRNYRLAVNNGNHDQYNYDA  
 YNAMYPRPNQVDENYFFEYNALFLSLDSNDYLDIDDDIAFLRDTVAAGDDKDWIVLTYHHSTFSQAY  
 HMDDARIKYQRERLTPVISELNVDLVLGGHDHIYTRSHLMNGFTPVDAGREAVVGETLNPKEVYVLA  
 TNSSSGSKFYDFYDFQLGQRYDTGLDFQETVDQKKIRTYTAVWNQDQVQDYTNVELTPEGLTVTTKDAV  
 SGELVDQFTLSKQDRDEESEVPVEDDKDGDNATGSSNLGLAAILAPVLAIFGFVGGGLFVGGGSLAEFFA  
 NLGVKMPF

>RXS02453 TRANSLATE of: RXS02453.seq check: 9678 from: 1 to: 753  
 MKSIFISGAANGIGKAVALKFLHEGWLVGAYDLAEITYSHPNLRWGYLNVRQSESWDKALEDFAHTTGG  
 TIDVVDNNAAGVIEGPLQDAEEGSVDKLLAINVNGVTLGARAHPYLARTPGAQLLNMSASAVYGQPO  
 IAVYSASKFYVAGLLEALNLEWRKDDIRVVDVWPLWAKTDLVNGVKAKSLKRLGVTRITPEQVAQAVWDA  
 VHPKSRWAKGKVHGHVSKLDKALYLMKSLSPDRVAMCFARLIAG

>RXS02474 TRANSLATE of: RXS02474.seq check: 7789 from: 1 to: 774  
 MSKVAMVTGGAQGIGRGISEKLAADGFDIAVADLPQQEEQAAETIKLIEAAGQKAVFVGLDVTDKANFD  
 SAIDEAAEKLGGFDVLVNNAGIAQIKPLLEVTEEDLKQIYSVNVFSVFFGIQAASRKFDDELGVKGKIIN  
 AASIAAIQGFPILSAYSTTKFAVRGLTQAAQELAPKGHTVNAYAPGIVGTGMWEQIDAELSKINGKPI  
 GENFKEYSSSIALGRPSVPEDVAGLVSFLESENSNYITGQVMLVDGGMMLYN

>RXS02485 TRANSLATE of: RXS02485.seq check: 7602 from: 1 to: 1101  
 LDSSLAQEIAAIDGVELDSEVTFADLTTLRIGGKPRSAVRCQTTEALVSAIKLLDDASLPLLVGGGSN  
 LVVADGDLVDVIAVIIETDDVSINLTDGLLTADAGAVWDDVHLSVDAGLGGIECLSGIPGSAGATPVQN  
 VGAYGTEVSDVLTRVQLLDRTHQVSWVDASELDLSYRYSNLKFTNRAVVLAIQLLLDGLSAPLRF  
 ELGRRLAISEAEPHPRRPVRMVRDAVLELRRAKGMVVEHTDHTWSAGSFFTNPVDPALADAVFEKVG  
 EPTMPRFPAGDGKEKLSAAWLIERAGFKKGHPGAGAKASLSTKHTLALTNRGDARASDLVALAKEIRDG  
 VLETFGVTLVPEPVWIGISIDD

>RXS02539 TRANSLATE of: RXS02539.seq check: 6480 from: 1 to: 1518  
 MTVYANPGTEGSIVNYEKRYENYIGGKWVPPVEGQYLENISPVGTGEVFCEVARGTAADVVELALDAAHAA  
 ADAWGKTSVAERALILHRIADRMEEHLEEIAVAETWENGKAVRETAAADIPLAIDHFRYFAGAIRAQED  
 RSSQIDHNTVAYHFNEPIGVVGQIIPWNFPILMATWKLAPALAAGNAIVMKPAEQTPASILYLINIIGD  
 LIPEGVLNIVNGLGGEAGAALSGSNRIGKIAFTGSTEVGKLINRAASDKIIPVTLELGGKSPSIFFS  
 LSQDDAFAEKAVEGFAMFALNQGEVCTCPSRALVHESIADEFLELGVKRVQNIKLGNPLDTETMMGAQA  
 SQEQMDKISSYLKIGPEEGAQTLTGKGVNKVDGMENGYIEPTVFRGTNDMRIFREEIFGPVLSVATFS  
 DFDEAIRIANDTNYGLGAGVWSRDQNTIYRAGRAIQAGRVWVNQYHNYPAHSAFGGYKESGIGRENHLM  
 MLNHYQQTKNLLVSYDPNPTGLF

>RXS02554 TRANSLATE of: RXS02554.seq check: 9544 from: 1 to: 624  
 MSHTKPSIAILGAGRVGSSSLARSABAAGYEVKVAGSGAVDKIALTAELMPGAVPSTADQAVKDADIVF  
 LAVPLHKFRSVNPATLEGKIVIDTMNHVWPVNGELEEDQDPRSTSEIIAEFFAGSTMVKSFNHIGYHE  
 IEQDAGTGRAIAYATDDVDAGAQAQLIKSFGFVPLNIGALENGRILEPGQEAFAHLNKDSRLELVNQ  
 R

>RXS02560 TRANSLATE of: RXS02560.seq check: 4626 from: 1 to: 867  
 MQGNSLNLADNSERKKPMPSPGELLAARYGQPATWTPPQWNETLDVIHQHRSVRRWLDKPVDDDTIRTI  
 ISAAQSAGTSSNKQVISVIVVKDPELRKGLAGITRQMFPHLEQVPAVLIWLIDYSRISAVAAREDLPTG  
 ALDYLDEAAWGFLDAGIAAQNAIAAESLGLGLTLYLGSVRNDAEAVHKLLGLPPEIVPVVGLEMGHADP  
 PEPAGIKPPLPQEAIVHWDITYTEKNLELIDSYDRALDITYSRYGQHQLWSKQTAHRAASKSFSKTNRQF  
 LRGVFERAGFGLR

>RXS02578 TRANSLATE of: RXS02578.seq check: 8723 from: 1 to: 1104  
 MSTQSYAPIRHRGFISSEGLRAIASLGLATHVAFQTSVDPASNIGAVLARFDFVAVFFALSFAVLW  
 RRRAGQPVGLYYLKRRLARIMPAYWATVIAVLLFIPTGPWLANLTMTQIYWPDLMTGLTHLSLVEVA  
 FYLVMPLLAWVLDLRFGRPVRIILLIVGGAVLSLAWPWIPLVEHALDEGWANMQIWPPAYACWFAVGMIAA  
 EIEGVRFPVPSPFVWVGLALVVAWIAGQEWFGPLGLVHPSPWEFNLRLVLAGTLFAVFLVVPYALGTPSR  
 LLDSSWMKTLGTWSYSIFLWHLPLVLTIVFPLGLPLFSGNFLLVFIVTVLLTIPVAAISYTFIEEPISG  
 GPGAPFRLGVRIHHFSGGRSGK

>RXS02741 TRANSLATE of: RXS02741.seq check: 3647 from: 1 to: 966  
 MKAILVSRTGGPEVLEFTDTPAPKPTDDQVLVEVDMAGVNFIDTYRQGEYHARLPFIPGFEGTGRVLE  
 DPQGLIAAGTKVAWCDAMGSAQQVCVPRDLVAVPEGVSSEVAASMLMQGITAHYLTNGVYELEEGDS  
 CLITAGAGGVLLATQMAAAKGVVYSVVSTDEKAELALDAGAYEVFRYSDNLAEQVRRHNGGRGVDDV  
 YDGVGQSTFNESLEAVRPRGTVCFLGAASGPVEFPDQLLNTHGSIFLTRPSIGAWTSEEGEFAKRAQA  
 VTQAIVEGTLRVRVTGTYSLADAYIAHRDLQARSTSGSLVLEIPKD

>RXS03058 TRANSLATE of: RXS03058.seq check: 2459 from: 1 to: 483V

SKLKGSRSLLDVGSGDHSFADLAGRQVAHVVDVVDPLINTTFEEFQPTQSYDAITFIASLHHMNAEEGLN  
KAVRILNPGGKLLIVGLAKNKTASDWIISGLQAFLSRPISLINREQQIYPFPTKEPSESLHEIRQLTKQ  
LLPHRRIRRGIFRYLLEWTKP

>RXS03061 TRANSLATE of: RXS03061.seq check: 2307 from: 1 to: 330V  
SLTFPVINPSDGSTITELENHDSQWMSALS DAVAAGPSWAAKTPRERSVVLTAIFEALTEAQLAEI  
IHLEAGKS DAEALGEVAYGA EYFRWF AEEAVRLPGRYGQS

>RXS03119 TRANSLATE of: RXS03119.seq check: 3185 from: 1 to: 132  
MAVYELPELDYAYDALEPHIVAEIMELDQSKDHATYVAGANAAL

>RXS03120 TRANSLATE of: RXS03120.seq check: 209 from: 1 to: 126  
MLDMWEHAFYLQYMNVKADYVKAVWNVFNWDDARARFAAASK

>RXS03150 TRANSLATE of: RXS03150.seq check: 9986 from: 1 to: 624  
VEAQFTSPLLNNGQTCFLGTRILAPKSR YAEVVDAFTAFAGSLQVGVTS SPDTQIGPMATARQRRVES  
YISQGKNAGARITVGGSRPRDL DAGFFVEPTVFADVDNR AAI AQDEIFGPVPSVVS YQDDEHAIQLAND  
SEFGLGGTVWTS DPERGAALARRVHTGTIGINRYIPDPAAPFGGVKNSGLGRELGPGLASYQETQTIY  
L

>RXS03218 TRANSLATE of: RXS03218.seq check: 4671 from: 1 to: 837  
MTPDLAAFLDKLYAEGQEFDAEQPDRLDRRRNLESESAALLRSLIYGISP KSVLELGT SNGYSTIWMAD  
VVNLTTVDNDPERSLDAAANLRAAGVEEKVQRIVADGATVLADSADEQWDFIFLDAEQSLYVNW WPDLQ